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Editorial



We fike our postman. After months of waiting, he turned up the other day looking like Santa Claus, his sacked filled with a 55% finished version of Myst, the first PowerUP cards to hit UK shores and the mythical Championship Manages 2! We thought we'd be polite and switch him for a supon and a slice of cake. A week later we

wished we never did as we paised him away from our Amigas, so engrossed was he in his Champ Manager crusads to get Milwall to the FA Cup Finals... But I'm going on a bit now, so I'd better just leave you to enjoy this top issue we have for you once aguin. Oh, and it's a bit bigger this month tool See ya.

Tony Horgan, Editor

Exclusive preview

36 Myst

The biggest salting CD-ROM game of all time is about to be released for the Amigai Myst is an eplo adventure game the like of which the Amiga has neval seen before. With over 2500 animated 3D scenes, it's a game of monsterous proportions. Setting a name of monsterous proportions.

tial of an Amiga convarsion of the original PC and Mac game from Cyan, and followed through by bagging the Amiga publishing rights, handling the convesion thanselves. Assuming Amiga Myst does well, we could see the same pattern being followed by other publishiars and developers, keen to give the Amiga the general it deserves. Click BOOM are a leady working on shiftierly adventurous projects to bllow up Myst, and if this is anything to go by than waive get some tot general such control or the control of the cont



Feature

28 PowerUP: First Look!

It's a lived The Amiga is now offerably bear on the cutting sele Emanying from the shadows of the Pentium PC, the Amiga can now count on the sweetness this selection of the Pentium PC, the Amiga can now count on the sweetness this selection of the State processors that the very large threat processors that the very large kindlens and spit them out with whom The AMODO IS first to get the March 19 PowerPC consumed with phase 5° is not the New York PowerPC consumed with phase 5° is not the New York PowerPC consumed with phase 5° is not the New York PowerPC consumed with phase 10° in the State that the State that the State that the State that PowerPC conference of Amiga PowerPC conference and a six what this well means for the Network of the Conference of the State St



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11 Dir Work 2.1

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C Task 3.1



Our cover disks/CD include 2 programs from Quasar Distribution. DirWork 2.1 and PC Task 3.1. Both are full versions of commercial pro-

grams. CD users also get the demo version of PC Task 4.3. It's restriction is that you can't write to hard drive.

Installing PC Task

Floppy disk users

Insert the first disk is a drive and double-click on "install PCTesk3.1". You will be asked where you want it installed. A directory cafed PC-

CD users

CD disters
Vou will noted to Institut PCTisck measually, shoes the Install sorfor war
written for Installation from Bopby disks. First copy the contents of
Tasks. I divers to your DEVS of occupy, this is, all their a needed if you
want to my PCTisck from the CD, otherwise create a PCTisck direct
and copy over the time in PCTiscks. I and the MISDOSUSIs directiony.

All users

There are four versions of PC-Tesk, two for 89,000 machines and two for 89,000 machines. The Turbo version uses a lot more memory, but turns faster, use if if you have the memory available. You can remove

Installing DirWork

Floppy users

Double-click on the "Extract DisWork2.1" roon and select in temporary directory to average to, it meeds around 700XB so you could extend it to RNAM: it you have at least 1Mb from. Thes open the Diriklosi2.1 drawer and doubte clots on the "Install-Diriklosi2" loon. Once again, the installer will create a directory for you.

CD users

So mbo the DifWork2 1 directory and double-click on the "listcall-DirlWork" loon. Once again, the losteller will create a directory for you

netell PC Task as detailed in the box out start the appropriate version from its roon and you will see the configuration screen (figure 1) For now the bot-You need to tell PC Task where it's herd and floppy drives are found. A and B are floppy drives, use DFO. Task uses hardfiles to simulate the

There is a 2Mb hardfrle on the second cover disk CD users get a 10MB hardfile. You will need to creete e second hardfile on which to matell MSDOS so click on 'Create HandDrskFile* and enter hardfile1 for the name and a reasonable size (in megabytes! Once the file has been created you can set up C and D as hardfile1 and hardfile0 respectively and save the configuration

Put your MSDOS floppy in DF0 and press Start PC Task should boot from your MSDOS floopy and look like figure 3. The first thing to do is pertition and format the new hardfile Type FDISK at the prompt and select optron 1 from this menu and the next. Select Y at the third menu and follow the instructions

Once you have rebooted the PC. you can format the new 'hard drive' with "FORMAT C /S" The /S tells MSDOS to molude some essential

system files on the drive. Finally capy the contents of the floppy to your hard drive with "COPY A " " C " Now elect the disk in A and reboot the PC with Ctrl-Alt Del

working MSDOS setup on disk C You can copy files from the supplied hardfile to C using the MSDOS copy command, but there is an easier way Provided you copied hardfile device to DEVS you can access

the PC hard disks from the Amroa Since using both the Amiga and PC to write to the same disk at the same time could be disastrous, durt PC-Task first and then run PCTCrossMount This mounts C and D as TCC and TDC on the Amroa, provided you have CrossDOS installed CrossDOS is supplied with all versions of Workbench from 2.1 onwards For some reason you need to assign HF to the directory containing the hardfiles after you run

The 10Mb hardfile on the CD sherewere. You can also copy files from PC CDs in an Amiga mounted CDROM drive. You can copy files to and from the hardfiles using Workbench or the shell, but by far the easiest way is with a file manilg-

Have funt



Dir Works 2.1

program from Quaser disks. It is a directory nanager using the traditional two grams like DirUtil and SID end devel-

rused DirWork for years, first as a shareward product and then the CUCDs were compiled using

DirWork and even though I use Directory Opus 5 in Workbench Replacement mode now, there are still leatures | miss from DirWork

Install Dr/Work as described in the box-out, start it from it's icon and you should see the default con figuration as shown in figure 4. This is a very basic 2 lister setup, but Dr/Work is capable of much more sample configurations (in the configurations directory) Load some of these from the mam menu to get an idea of what can be done

select Configuration Editor from the menu to get the selection window and select "Change

Buttons/FileLists/Scrollers* You should now see something like figuse 5 Everything on this screen is en object that can be selected and edited you can change the size, position fant, colour and actions al each object. DirWork has a range of tures, mods, samples etc. but let's



use an external command MPEGA is on all the CUCOs end is an excel

lent player for MPEG audro files Circk on one of the buttons and change the Text gadget to read MPEGA, circk on Change Action(s) and then Select Actions, prck "Run external program" from the list and you will see something like figure 6 Type 'C MPEGA %p%f" in the program gadget (this assumes MPEGA rs m C of course)

The %p%I refers to the path and Intename of the selected file Circk on Console Window and select one of the options you don't need a window to open for MPEGA but it means you can see what's going tons so you can see any error mes sagus. You can remove it when you heve the button working exactly as

Meke sure you use a window with the CLOSE option, otherwise it will stay on the screen after the button action has anded. The two gedgets near the bottom need to read

Emple sinds

"Current source" and "Selected files' Click on Lise m this window and the next, followed by Save 8 Our This should return you to DinWork with your new button

Now if you select an mpag audio file and click on the button you will hear the file If you don't have more, try setting a button to show a picturn with ViewTek, Visege or even Multiview it doesn't stop there, we can now configure DirWork to recognise on mpeq life and automat

leafly play it when you double-click rts neme. Go back into the configu-

Specific file/dn type InstantActions* end click on Add. You will get a window like figure 7. Type MPEG Audio In the Description field and 1#2 mo(213)" in Enter Pattern. Thes

means that any file ending m mp2 ar mp3 will be recognised as mpag audro Select Change ections and set it up exactly as you did for the button Click on Use the Save & Quit and double-click on an mpec file

This only scretches the surface of what you can do with DirWork Have a look at the example configu rations and the various options and коер ехрегтепила

ration editor and select "Change Diamond Caves II

flow we've squeezed this disks along with everything else Diamond Caves II is based on the Diamond Cover II takes things a for to enable you to make devito make ineredibly easy ones for people who are emp at compute

ele. Collect all of the diamonds then leave through the soit which will start to flash. Some rooks) are affected by gravity, as them, they if fall into the gap beneath. If you happen to be

Optional extrat also allow you to











Welcome to CUCD17. If you haven't invested in a CD drive yet, read

this to see ceastly what it is that you're missing. CUCD17 can be bested from a CD32 or an A1200/4000 with CD32 GLIGATI sam be booted from a CDIZ or an ATDO/ADDO with CDIZ are multical, in cred to use this CD from you are with without, you only need to dick on the factor loop, which will then aflow software for min other CDI billions MVII, Dorn and the NewYoon systems—don't be surprised if the look of your Workbanch sockleshy decides to change. The whole thing is only temporary, and it can be immoved by strapy clicking on the control of the contro

which will connect you to nearly sli text documents, and INDEX which is a CD search tool. Just like everything else on the CD, you need to elick on them to activate them.

650 Mb of What? It's easy to mice the where the

lies in such directory.

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CD, pecked to the brim with
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OnEscapes

Not one but two great commercial packages, a huge icon/workbench theme and the usual superb packed-to-the-brim CUCD. Lots of wholesome goodness!

Highlights

PC Task 3.1

The excellent PC emulatron peckage is provided com-MS DDS applications

Dir Work 2.1

The Amiga's best splitnow on the CD in the com plete commercial form. Use

end other CUCDs! A new super-dema of the

fabulous OnEscapee Thrs.

CoolWB

The definitive collection of workbench enhancements, rooms, backdrops and more Thousands upon thousands of files that make CUCD17 a disk to leave in your CD-ROM



More on IDer

Resource (Der on CULOs has been a mixed back of criticism and preise

This month we have made some changes to the IDer launcher to work

as the default tool. (Der ellows you to choose exactly what viewers and

CUCDs with a hiresolutron viewer, for example. Your preferences are

CUCD 17 Ind. 63.2M Free

1011010 マモン







InitCD

Quasar





CHCD

be found in the root of CUCD17 The standerd Werkhench drawers icons have venished ithough the drawers remain) to be replaced epening Reading file Draw Studio. AIR Link, the IslanaGemes deme can be found here

Root: The CDsuppert drewer can

Quasar: Oueser's full cemmercial PC Task 3.1 PC emulater and the split-screen directory utility Dir There's elso a PC Task 4.3 damp OnEscapee: Sadeness'







but this time it's several times bigger end better than ever CoolWB: Werkbench backdrops pictures enhancements and icons Workbench like naver before, you'll CDsupport The vital support files ter the CD, viewers plevers IDer end the obligatory CUCDprefs pro-

CUCD: This is where the vast wanders can be found within. CDROM The latest AmiCDFS. Ammat CD indexes.

CD ID collection end OptyCDPlayer ere ell AGA end ECS effenngs

and rotete yeur 3D werld Turn the lights lew, crenk your steree and enjey! Jeystick fedder deluxe,

AmiChests several Tarnigetchi cleniis, Team 17 hard drive

excellent SWOS 97/98 update

Graphics Animetions, 3D

Magazine. All of the C source files from the tuteriel,

Objects, pictures the

leachers, fixers, GUI

html creators, BFCs

the progrems from Freeware mundum UKOnline That softwere!

Onlina: AmiFTP Miemi 2 1p. SANA 2 meter web

and CU Amipa Mailing list archives Programming: AMOS Meiling seurce fer the DICE C

compiler, the MUI development and

Readers, Arims Meds Pix Utils all sent in by other users of CU Amine



samples MPEG Audie Layer 3 encoder, Wevebesst and mere files and utilities te get those

Utilities: Lots el ublities including the letest version of SysInspecter, Virus

VirusZ. commodities.

www; The big three web browsers AWeb II 3 D. IBrowse 1 12 end Voyeger-NG demos The usual on-CD



If your CD does not load contact DiskXpress on 01451 810788. H they advise that the CD is faulty send it along with a SAE to: CU Amiga Magazina Dısk Returns, DiskXpress, 7 Willow Court, Sourton Industrial Park, Bourton on the water Gloucestershire GL54 2HQ

Plassa note that some CDs will not autoboot on systema other than CD32s, so try loading it from Workbanch first CUCDs will work with almost all Amiga configurations and illasystama. However, wa recommend older CD filesystems be replaced where possible A non-working program la not an Indication of a faulty CDI



Apple no problem for PPC

oncern over the future of the PowerPC processor has been vorced following the news that Apple computers have decided to limit the licensing of MecOS and suspend the CHRP common hardwer reference platform.

Apple, under the management of returning Mac guru Steve Jobs, heve decided to reign in the clone manufacturers an interesting move at a ame when Amrga International hes declared that the luture of the Armigs is in clones. Apple say their They were losing money at a rate of \$200 for every clone sold, but ex CEO Gri Amelro, whose departure was less than heppy has claimed that the move will lead to disaster The move has resulted in a lot of speculation that Motorola, who worked in an aperation with Apple on the CHRP project and produced a boards would react body Some in the Amya industry have suggested that this scells doom for phase 5's newly released PowerPC boards Motorols have told us that there wild be no problem. Motorols have told us that PPC development is very much driven by the desktop market and they have every intention of supplying desktop PPC chros to everyone who needs them, be they phase 5 or Apole.

large number of clanes and mother

CHRP based systems. Their plans to PowerPC Mee and Arriga clones continue with the announcement of the Megna series of Mac clones with MACHE PPC processors run mig 350MHz 604s, but the position of the CHRP TransAM Arriga clone is more complex. PIOS left us there is no problems sourcing the HYDRA.

chips, but heve contingency plans if ary problems anse in the future. A not be a major problem as it was Motorgla's plans for the future of the PPC family of chips makes interat the PPC in the imbedded systems. market has lead to improvements in manufacturing techniques which could have interesting implications. for Juture Amiga PPC developments The lower end 603e chip, currently redesigned to use 0.25 micron technology rather than the older 0.35 micran it currently uses which should lead to cooler, lower power consumptron and faster chips. This would make it it tempting CPU as a base model for luture Amrgas Looking to the future project 2000

decade, uses sub 0.1 micon technol opy and runs at 1GHz



UK Online give Amiga support - and free trial

CU Amiga has tearned up with UK Online to after enother internet ideal, this is also based on the superb NetConnect software like the last offer Howaver UK Online are now



offering a month free trial. The Cover CD has all the aptiwere need ad, there sing forms to lift m, if you have a modern you can get online right away!

UK Online plan to support Arriga users as no ISP has done before included more than the plans are an imple metristion of a full Armet intra and mirroring of the most important Arriga web sides such as the Arriga Web Directory and Arriga org set. We will bring you full details of these developments as they come. As added incentive to get online, UK Online have organised an impressive competition. All you need is a UK Online E-mail address which meens you can be an existing user or a frieth perticipant in the Free Yisil.

see page 31 for defails. The impressive list of goodies in the prize hamper include. Active Software's K66Flex Dynalink modern worth E129 96, a full NetCennect 2 CD worth E54 95. High speed seriel card worth E79 95 end STEX Pro Basylone software).

worth £29 95, a UK Online Femily

Software's Hidden Truth end ACA Experience 3 CDs, and of course a subscription to CU Amige Mageane As if this hamper wasn's enough, by the time you reed this it's expected that there will be an even bigger erray of prizes on offer Drop by http://www.ubcnhne.co.uk/Corporate //Complemings intril for full details on the compellation.

Internet account for a year, Sadeness

So what are you waiting for? Got a modern get on line with the UK Online tree that and enter the competition! More information can be found on page 31.

Cloanto to make **Amiga Emulator**

-aa emulator fer PC compatibles to be released by Cloanto, the takan creaters of Personal Paint Cloante's new emulator, entitled Amina Forever is based on UAF the

 S emulator which has been around for a while now. Cloante. have acquired licenses to use AmigaOS 1 0 through to 3.0

The Amiga Forever peckage will nclude Amrga Explorar (an Amiga te = 1 networking solution) The user

ed extension to the A ndows desktop, upon a getworked computer nnection will be made via future upgrede is planned to

tion with UAE Amiga with an Amige operating system pre-matalled

see will come with a floory disk with the Amige networking soft ware en it, a CD with the PC software and a collection of Amigs software including Personal Paint. The Picasso 96 emulator makes the software package a lot faster with P96

Cloento heve answered womes that this will damage the Amiga by pombing out that a lot of ex-Amrga owners will be attracted back, end that emulating the complex chipset of an Amiga is never going to be a



▲ Keaping the Amign alive — on a PC. Is Clounte's Amigt Forever the way forward?

RC5 cracked

encryptron algorithm from RSA labs This privacy cypher took the

combrned computing power of the equivalent of over 20,000 top end parsonal computers 160 days to crack over 4000 teams contributed to the effort and readers will be glad to know that the Amiga team effort was spectacularly successful

RC5 Amiga, administered by but managed to achieve en amazing 7th piece in the everall rankings, one place above the BT affort which started the previous day, and 30 places above the Micreseft

effort. The table for average key rate, which represents the amount of computing power put into the team had been working, puts the Amiga in 4th place

The top team was Apple and the the Starlebs team efter 47% of the keys had been checked

Next on the agende is the 64 bit rate this should take 130 years, but cemputer keep getting faster This time around PPC Amiges will be visit http://www.rc6 distributed net

contact Index information on +44 (0)1256 703426

News in Brief

Gataway posts \$1.7m losses

of 1997 Revenues were up mostly myclying the purchase of Logic Research is server manufecturer hit prelits. Gateway's fond symmer shipping strike in the US, which cut sales and raised

E-Boutique seek loyalty

UK highstreet gemes retailer Electronic Boutique ere introducsupermarkets. EB are one of the last major retail outlets in the UK regularly stocking Amrga games, If a large number of Amiga users registered with this scheme makform It is they are interested in line on 0800 317778

Lotus Pacific announces broadcast system.

ieint presentation by themselves and Chrnese Central Television Teletext of the Wonder TV broadcast system based around the Wonder TV A6060. The system will provide subscribers to ceble channels a hest of information As the dispute between Lotus Pacific and Gateway 2000 is the febled Chinese Amiga looks to be taking off at last. We have heard rntngumg reference to an A5800 desktop medel - be sure to check CU Amrga for all the letest

Micronik set-top box Mrcronik appear to be entenno

Amige based solution. Very few ly forthcoming, but the story is that there will be a cable box mr

Access Amiga clones and LS120 drives. For more details Index information are shoping their

public display/point of sale multime dia delivery system based on the motherboard designed to fit rite a standard width drive bay. The system is seld either as a board with lascia and disk drive which slots inte a standard PC type towercase, or m a helf height case designed for mexi-

The Access, now redesigned to take 68020 or 68030 processers, is equipped with 2 Mb chip and 2 or 8 Mb fast RAM, a sound sampler with mrcrophone mput non volatile RAM for configuration information an ISA net solutions, a real time cleck CDDA input and mixer, CD friesystem softwere on ROM and en IDE

sienal display and control systems

mo a lot of attention. We have heard of a number of people who have

chasing these machines. for everythmo from multi-

channel control solutiens for theatrical seund effects to point of sale display systems for a large high street multiple Current pages for the equipment ere es follows

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*Next working say, Orders must be placed before 2p.m. All orders will be placed on a 24bour delivery service. Siren Software are not respensible if deliveries take invested than 24hours. Only applies to flows in abook. U.K. delivery only.

Wishlist results from ClickBOOM!

he results of the ChckBODM weshiest ubshade in the July sease of CU in ga heve been published. Taking mileta verse post and E-mail, ClickBODM seeved voites from nearly 5000 voters what sort of germs they would fike see in the future. The table opposite hows the final rankings, but further stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Secting and the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of the stellers can be seen by the Section of stellers can be seen by the Section of

rckBOOM website at "p /www.clickboom.com II is inter--ting to note the differences in voting satterns between those who voted via



CU Amiga collected vie post. The postel vaters gui Queike down in 5th place. Undoubtedly this geme is more populer to those with an internet connection.

On the other hand postel voters loved Theme Hospital which mede it to 10th in the chart for postal voters. The differences between the two sets of voters suggests titel Internetters have higher spec mechanes and rether obvousty, the two were more keen on network germents.

ling!
Winners of the ClickBOOM games giveaways are
Mr M Pearce Croydon
Rep Couldbard W. Marks

Ben Coultherd, W Yorks
Frenk Parker, Birmingham
all of whom will be receiving a co
of Myst, end
A Skourous, Albens

Mertin Sincler WYorks

ANGA Z I N E

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Va have a vecancy for a

STAFE WRITER

As it says, we need a Staff Winter to join our Loidon-based editorial team We're after someons capable of executing searing text on a variety of Amiga selecter subjects. The secondarial applicant with be after to work to tight deadlines and the ability to make complex subjects about as a simple as ABC' to helper, we require the following

An in depth knowledge of the Amiga

The ability to take one sport and put it back together with your syst closed

Interests in a wide variety of different Armas applications

Ability to write to deadlines

Tons of Ideas to make CU Amiga even batter than it is

Hithat acond a like yon, send us a CV with an accompanying larter talling us about yourself and a 300 word typed seview of a product you've bought recently to Yony Horgan, CU Amige, 37-33 Milharbour, Isle of Dogs London, E14 9TZ

Total votes

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10 Duke Nukem 3D 37 Warquatt 2: 12 Command 6 Conquer

12 Command 6 Conquer [13. Simon the Sorcerer 2: 14 Wing Commander 2-4

16 Need for speed 17.Mechwerifor 18 Tekken

76.Resident EVI 20 Theme Hospital 21. MDK 22 Ullima VIII

22. Dark Forbes 24. Deytone 25. 3D Lammings

27, Bettle luis 2 28 Doorn 29, NHL 97

30 Descent 30 Screamer 2 32 7th guest

33. MK3 34. Fifs 36. Albien 36. Rettle Arene Tost

37. Rearis of Might Ma 38. Eerthworm Jim 39. Virtus Fighter 40. Putty Squad

Epic sell XG



Marketing will be selling the

Venerale MLV10 mel palq in modiule compatible with proper MS (see Compatible with proper MS

News in Brief

Digital cameras for the Amiga
The digital photography revolution

is coming to the Armae et last Versalls Computer of Germany have produced image transfer software which supports the Case Of Seating, Full USF Acades CECS and Memolas Dumped, Vanetinas III mitudes. AREX et and Cytomagnik. acadisons for DMSR, but etha sell buddles including the cameras who hope to turn you in full review of this system soon until them for further information call Vestalls Computer on 148 10/2852 8140 or vest them website.

Vulcan changes

Viction software limited investigation of the continuous of a regular design as the resultance of a regular design and the state in Following a smaller amountainment of the following a smaller amountainment of the following as smaller amountainment of the following the state of the following the state of the following and the following the following

2463800 Vulcan's web page is on http://www.vulcan.co.uk Amilbench On-line stores

For more information on the Ambench, a med Mark Wilson or Ambench@lecrobabsay/recook or check out the web-site itself at http://frundestorms.og/AmBench.



Stateside News

y Jason Comptoe: Jason Compton is Editor in Chief of Amiga Report Magazin

\$107 Million and the Long Run

it may be true that in the long run wa're all dead. For Sateway 2000, in the long run at's clear that they knew that just selling Windows. PCs to home users wasn't going to give them the sort of performance they wanted.

give here the sort of performance they warried. Gatorway does most of its self-ing ora's here in the LISA, where as ray ora's here in the LISA, where as low compared to most of the rest of the world Their's bocause the PC market is so heavily competitive—eating involved as about as easy as finding a wholesate supplied, placing an oad and wairing for the phone to ring. It is greater to the point where the PC hardware bearness is booked at as one of the most competitive and easiers to orthe baseasses in the cast competitive and easiers to contribute and easiers to competition has the time.

dency to push down pness - so far so good. That has the flip aide of raducing profits. Ioo. In the long run war a all dead, and if we've good 50,000 competitors, profits aren't too healthy either. The people at Geleway are smart, and knew theil this sort of thing happens.

So not too long ago they look steps to counter the problem. They started looking at higher value. (read more profitable) products In all likelihood, they looked at the corporate PC server market that their closest compelitors did very well in Those machines are expensive and vary high tech and fawer companies provide them to corpo rations. Price competition wasn't as high, so Galeway looked for a way in Rether than try to sell their folksy cow boxes straight to companies as a solution, they worked to aquire an established PC server

firm Again, so far so good. Then they looked for some rast value – a technology that would be theirs, look stock and barrel, and whose

rising fortunes would benefit them first and dractly. Now, it is unclear how this all worked from start to finish, but as we all know they found the Amiga and decided that

they had to have it.
Nobody likes losing
morney, certainly not
\$107 million. But before
you worry about an
'Amigo curse , keep in
mind that it was more
the mechanism of the
Arrancian and worldwide
PC merket that reared its
head this time, and that
more importantly,
Galleway has taken a

Active Software

huge step toward remedying the

The Amiga is the cure, not the disease, for Galleway 2000



01325 35260

Windows 95 on Amiga

In the size for dominance in the RC amulator marker, RC-lists has achieved an important first Quasar Publications recently released PC-lists 4.3, supportury released PC-lists 4.3, supportury Windowselfs The Company recommendation of the external high overhassis of the publication of the external high overhassis of the publication of the external high overhassis of the publication of the external high overhassis of the external high overhassis

interested in emulating on a budget or in simply keeping thair money about Caldera OpenDOS OpenDOS Is the latest incarnetion of the former DRDGS and Novell DOS, now owned by Caldera and available free for evaluation usa. For most purposes. OpenDOS is the functional equivalent of MS-DOS OpenDOS can be downloaded from www.caldara.com It is not yet compatible with PC-Task and PCx, but both companies are now awere of OpanDOS and are making the necessary changes Check out this month's CD for a damp of PC-Task 4.3 as well as the fully working version 3.1

es-place 3 leave-of the labours, will rights toursed the laids. This is version 5.18 Published by Susser Sintr Dation Berieff 5	Processor (b) 48246 Brashics Salaylar (Plasmo Idea) Révanced Ulder Bettos 1 Saland 161 (6957 House
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PoverUp

Woo! Look what turned up in our post beg, phese 5's lovely new Cyberstorm PPC from Power Computing. We take a preliminary stroll around the impressive hardware ahead of next month's review.



that's the card wa've all least wantes for It's a lonitri up Coberstorm PPC for any bin-hox Amina with a first slet. That limbs 200 Mbs PayeerPC 684e in on the fact. reds tent

That's it,

upgrada for the Amiga since AGA five

long years ago. The leap from an 80s. erchitectura CPU to state of the art computational power Phase 5's PowerUp project threatens to address the Amige's weakest area and propel it beyond the capabrittes of high and PCs. Were talking about the PowerPC processor family whose lowest member is twice as fast as the 68060 and with sevan times higher clock rates. That s on the nippy side

The first PowerUp model to appear is the Cyberstorm PPC This is a brg box so-called

nected accelarator which fits A3000s and A4000s. Also, importantly, it will fit the forthcoming Amiga clones also aquipped with fast slots. The Cyberstorm PPC is phase 5's no compromisa expansion with

Fittad with a 64-bit DMA interface phase 5 have stated this port for use with their forthcoming Cybervision PPC. This will be

2D and 3D graphics for and away beyond.

Outrageous power

Excited yat? Than thera's that ultre Wide DMA SCSI controller from hall. The awesome 53C770 controller is capable of driving the latest largest and best hard drives on the market at speeds as fast as hard drives currently go We're talking about outrageous outrageous herd disk I/O It's unbelrevable But this is the first stage in the Germon PowerUp mastarplen. The part evaryone is excited about is the PowerPC 604e sitting next to the large 68060 chrp. So far this is: only starting to be exploited by software and months but the lack of a proper Armiga nativa PowerPC compiler is the next hurdle

Work is progressing all the time and



A place 5 entents the fourte of their mouterplan to get the Anigo back on tap

We to expecting nothing short of astounding performance, needless

Scuzzy! And not eny

either The 53C770 chip here is a state of the art Ultre wide SCSI controller capable of driving

the newest, lergest and fastest modern SCSI hard drives on the merket. Just to the left you can see the UW SCSI connector. it's going to be tricky to find a cable..

PowerPC supporting programs. Some of the sey software support provided with the Cybeistorm PPC will be greatly Improved next month and it's then that we plan to review the Cyberstoin PPC from start to fin. ssh and take it through the hoops

Miniacule PowerPC

Arnige's universal 5V

At that s to see of the PowerPC on the Cyberstorm PPC is a small heatsink and fan array smaller than the bare 66060

Removing this, a miniscule chip can be found that's only 4x4cm in size. The difference in technology has never been more obvious when compating the tiny 200MHz square compered to the huge 680x0 chip The smell jungle of bulky capacitors next door are part of a power conversion circuit as the PowerPC requires 3.3V instead of the

The CyberStorm PPC's four SIMM sackets must be used in pairs as the eritina design sports a 64-bit geth to memory on a bus running at 66MHz. Even the 68060 benefits from this memory interface making the Cybeistorm PPC the fastest 68060 card

we've yet soen No doubt the ultra wide SCSI port on the calld will cause some winng confusion in the short term. No one seems to supply cebles to connect existing hard drives and externel devices to it yet For this reason elone those tests will have to wait until next issue

to say The graphics port should be perticularly oxciting for games. When phase 5 bnng out their CyberVision PPC the 3D capabilities of the Permed-e 2 cen be compaied to those of a Nintendo 64 in high resolution. Coupled this with the CPU power offerd by a 6040 and there's no 3D geme anywhere that wouldn't look

stunning on this combination. Is it really worth it?

This first card not cheap by eny means Initially available in only the pedigree 200MHz 604e and 50MHz 68080 veneties, hopefully the initial rush of professionels end the musthave manacs will die down quickly end phase 6 can ship the economical varieties with 68040 and 150MHz 604es. After all. they do have to finance the development of the add-on cards

Right now, the most use of a Cyberstorm PPC is to be had in the fest 68060 system. Thon, essuming you can find the cables, the incredible SCSI on board. So for many, the time for PowerUP at these prices is not right

However, work progresses on the far choaper Amiga 1200 PowerPC 603e varsigns and by then, software support will be far more wide spread. Sharewere authors heving access to PowerPC is what PowerUP really needs to succoed. If you want to take an exponsive slice of the future, here and now

the short term, or the

long. The rest of us wart segarly for news of the A1200 units also next month

Rumour is that there will be some big ennouncements of key companies being enticed back to the Amigs on the basis of PowerUP Stev tuned things are hotting up

Software at a glance Phase 5 initially shipped the Cyberstoim

PPC with some sheky installation softwere although the printed installation manual is an improvement. The CD contains some PowerPC demos and some developors metalial for card based on the free GNU C compiler There's was no senous native compiler or in-depth documentation available initially

The demos include the suitably impros sive LW Show, a utility for displaying Lightwave objects vary very quickly There's also e l'actal explorer. MPEG video plaver and an MPEG audto laver III pleyer which we found impressive. The former neturally support CybergraphX for fest realtime MPEG video player (even VideoCO) and the latter supported AHI for output to Paule or 16-bit sound herdwere elike

It splunded superb and all the hard work was done by the PowerPC Met Bettinson

Is PowerPC really the saviour of the Amiga?

Not quite yet, but if all goes to plan it will be. The Pentium's progress left Motorole's 680x0 CPUs far behind long ego, end even the desirable 68060 can't touch the new generation of Pentlume. As a result the Amiga is stuck with a brain that now looks hopelessly out of date. But look, what's that galloping towards us from the horizon in e cloud of dust? Yes, it's Motorole's new PowerPC chips! They've come to save us They'fl give those PCs e run for their money, end trensform our Amiges into supercharged bassta capable of handling all kinds of applications that are just plain imposeible with just a 680x0.

Once the CPU has had such a radical upgrade, the doorway is open for the rest of the Amige's erchitecture to get similer trestment, from improved graphics displays and audio processors to ultra-fest I/O interfeces. So the enswer is yes.

It's a PowerPC! Underneath this heatsink is an innoce ous looking smell 2cm x 2cm chlp. It

Just happens to be a 200Mhz PowerPC 504e and it's on the fast side. It likes to talk to the RAM in the four SIMM sockats through e reef 64-bit wide 66MHz bus which lets the PowerPC go even fester. This also helps the compenion 680x0 CPU euch sa the 68060 pictured.

SOFTWARE **Amiga Forever**

Includes Amige operati systems, ROM: and emulation software 'Amign Explorer' networking solution



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Picture Manager Pro

met conversion image processing PhotoGD access and

Picture Manager Professional V4

Tomedo3D is a superb Rendenna and Animation package

PCx - Software PC Emulation Advanced 60x85 PC

PCx





HARDWARE

Various

Montos Adaptos (23-pin mon to 15-pin gfx) VGA Arienter (23-our Amigu to 15-oin mon) Flappy Drive 1 75Mb int (1200/4000 I" high) Floppy Drive I 75Wb Ext (No paichl) 8 Mb 72-pin SIMM RAM 16Mb 72-pin SIMM RAM 32Mb 72-gin SIMM RAM 1 2Gb IDE Hard Drive 2 1Gh IDE Hard Briva 12X IDE CD-ROM 24X IDE CD-ROM Cal Weesel floppy controller (A1200/A4000) Use mexpensive PC floppy drives (DD:HD)

IDEFix 97 - Buffered A1200 4-Way IDE IA Includes registered Atapl softwire CetWeamel Zorro Six IDE devices + All Celtwessel functions Buddha

Four IDE devices for the A4000 Sigmena V2.5 Softwere packs

nofessor a

Picasso



integrated flickers fixer, 4Mb EDO RAM, Autocenne Zorro III or Zorro III

The chappest routs to last, high resolutions and high colour graphics! Zorro II



Trapped II - Sturning high and 3D game! NeMac IV - The Directors Cuti Shadow of the 3rd Moon - Voxel Flight Sen 17.1 July BrainKiller - 3D Shopler Sword - Novel Platform Game









Amiga OS 3.1

DB3.1 Officer Amios OS Uppreds

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The Byama monitor range is ferrous iiyama

Moren Master 15" MF-8515G

Genlock/DigiPen

MG10 Genlock 5 .coms VHS VHS-C Video-8 formets with precise settings of trast blightness on

Keynole effects) and sot

MG25 Genlook Monitor switch ascernite RGB colour setting

DioPen 303 (7 62 x 7 62 om DigiPen 804 (18 24 x 10 18 km

DigPen 506 (15.24 x 15.24 cm) DigPen 506 (22.85 x 15.24 cm)



Ariodne Network

set Amiga networking



Amiga Computers and Toylers

Infinitiv

Infinitiv Amigs Tower Sylems Officially licensed Amige computers

Infinitiv 1300 Infinity Tower, A1200 Motherboard OS3 1 200W PSU Mouse External

Amice Keyboard, Floory drive As per 1300 above plus 5 x Zorro II. 2 x ISA, 2 x PCI and Video option

As per 1300 above plus 5 x Zorro III, 1 x ISA 2 x PCI, Video opiron A4000 CPU slot. SCSI-II interface and 1 x

Add-on Choices to: any infinitiv Amiga compute: 1.2Gb Herd drive + 12x CD ROM £159,96 1 2Gb Herd drive + 24x CD-RDM

Trapped II and NeMac IV (with any CD) Inflattiv KII-Z2 Tower, Z2 board plus PSU Infinitiv Kit-Z3 Tower, Z3 board plus PSU

NetConnect Life ArtEffect SE PMPro V3

Zorro HI/ISA/Video (A3000) Uprated PSU

try Towns + Keyboard interface

by Tower + K/R int + PSIL 8158.98 pard Zorro II x 5 PCI x 2, ISA x 2 (aption) pard Zono III x 5 PCI x 2, ISA x 2

inferty uprated PSU initing 3.5" "Snap-on" bay this five 5.25" "Snap-on" bay CIA Adaptor

Externel A1200 Keyboard case Audio Sint Bazal (2 x Phono) 1 78Ma Flappy drive (Internel)

3 5" device adaptor (Mountain 5 25" bay)

Tower Kits for the Desktop A4000 and A3000 Metal CE Approved Town Zono III elots x 7, ISA elots x 5 (6 on 3000), Video x 2

(1 on 3000) PGI vernion has 3 x PGI and 3 x IBA Tower 4000 PC! System Tower 4000 ISA System Zorro III/ISA/PCI/Vid (A4000)

Accelerators - PPC and 63xxx



PowerPC 504e Accelerators for Amiga 3000/4000 Downs DConse 189, 200 MHz

PowerPC 603s and 803s+ Accrientors for the Amige 1200 Bitzzerd 903a

Blizzard 603e+ PowerPC603e ® 200 MHz 65040/68050 25-50 MHz max 125 MB RAM







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If Diskes News, Crownhill Industry Million Keynes MKII DER UK

Last month we built the fabulous DIY AIR Link.

This month Nail Bothwick divas in the deep and and tackles some practical applications.

> th last months excellent AlRink DIY project, you can now interface your Amige with almost anything that sends or receives milra-red signels Obvious exemples molude using a TV remote control to run programs on your Amiga or using the Amige to control your TV. VCR, Hi-Fi sto The uses are endless, limited only by your maginatron, but lirst you've got to get AlRlink talking to your intra red device. First we will look at setting up AlRlink to work with your equipment and then try a lew examples using intraRexx

Setting up

The basics of using IntraRexxDaemon and IntraRexxEditor were covered lest month The most cntical part of the setup is the bitrate if this isn't nght, thrngs will not work proparly The bad news is that there

is no easy way to determine the brirate of a unit only trief end error e handful of common britistes used by the majority of handsets. The rates used by the sample codesets from InfraRexx ere shown m tabla 1

¶ your herdware is not listed here than you will have to make a guess where to start. Since you will need to stop and start InfraRexxDeemon quite frequently during the setup process, it will be easier if you leave its icon out on the Workbench for now Quit

1176 Philips Reflex 1667 Sony

1900 Cenon 1818 Akai Canon Hitschr Kerwood NEC Test Yamaha

1786 Onkyo 1887 JVC

2500 CDTV Panasonro Pioneer Semsung Servo Technics

DEFRECEIVE='eddress command flesh'

the deemon if it is running, start the editor create a new entry and salect edit

The most important gadget hera is the one containing the mirared bitstream. Once you learn a code it will contain a string of I's and D's corresponding to the pulses of the intrared score

Now select Learn and press a britton on the remote control Then repeat the process watching the contants of the bitstreem gadget. If they change it means AlRlink ran't steing the same code each time so you have the wrong bitrate. Exit the Edit window change to another bitrate setting and try egain

Once you achiave consistent results from repeatedly learning the same button you have a good bitrata setting. It is worth takring the time to get the bitrate absolutely right for the first button, if you find you naed to change it feter on you will have to re-learn env codes you have already learnt.

Now we can learn some codes and assign commands to them, the limst thing to do is make sure you have a DEFRECEIVE tooltype set in intraRexxDesmon, this will alert you to any unrecognised signels. Copy the Flash commend from the cover disk/CD to C and add the following tooltype to IntraRexxDaemon

llash the screen, or do whatever alternativa you have configured in Sound Preferences II the deemon was alreedy running when you changed the tooltype, you will need to stop end restart it

Playing music

The lirst example uses AlRirnk to play mods through HippoPlayer, which is m the CDSupport drawer of most CUCDs. The ARexx port of HippoPlayer is called, surprise surprise, 'HIPPOPLAYER'. To program a button to start playing CD, create and learn tha code for a button on your remote control. then set the ARexx receive command for that botton to 'ADDRESS HIPPOPLAYER PLAY' Note the single quotes surrounding the command, these tall InfraRexx that this is an ARexx command to execute, not e script to run. You can now do the sama with

other buttons for Stop, Fast Forward,

Rewind atc

same thing, but most remote controls come with a single Power button to switch on and off. This is where IntraRexx's ebility to run. ARexx scripts is so useful, and the scripts don't need to be complicated as you can see from Table 2, it only a has two lines. The gram it it doesn't find it. If the port is alread there, the second line sends it a QUIT commend. Seve the script as REXX HippoStart included set the ARexx

Thrs is Irre for buttons that always do the

able :

EURPOPLAYER on and off via

rowl P "HIPPOPLAYER] = 1 then ess command run > NIL -0 CDsupport/HippoPlayer/HIP" se address "HIPPOPLAYER" 'QUIT'

ervis command for the Power button to Stars with no quotes. Restart the deeand the power button turns HippoPlaye

d off, just like a HiFI system
could use the same principles to
with any module or audio CD player
an Affect port, just by changing the
address and commends I use AllRlink to play
CDs through YACDP using a remote

This is only the start of what you can do terms of controlling year Amige with a it control. A module or audio CD player good first step most player programs Affack commands for the mem funcand it is genuinely useful if you have Amiga in your living room, hooked up to

 from your Arrige would be to have it your video recorder, taping programs a 1st whenever you are out

have to remember to progrem them bme, and repeat timers usually require selectehed the recorder is switched to mode. How about setting your Amiga automatically record all of your to programs? All you need to do is

sure there is a tope in the VCR and course there is a tope in the VCR and cour Amiga is switched on this example assumes you have a way or

rs StartVCR.rexx Channel StartTime Length

challed by you to control
as not the other way

tan time needs to be the standard Minormat (using 4 mill clock) and 19th is given es For e to

e with

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record Coronatron Street et 7 30pm you

rx StertVCR rexx 3 19 30 30

This script is quite basic, there's no checking that the information you give it is

well of You can add this sout of check if you wish but of a not much point of the can add this sout of a not much point of the can add the

REXX StartVCR rexx.

Line 9 reacts in the variebles you have given it. Line 12 paps a requester up on the screen telling you what is going to happen. This means you can for exemple, furn the VCR off if are mand you want to waith the program instead of record it, as well as

waming you that it is about to start so you can set the script to be run 5:00 minutes before the programmer as due to start. Turn 13 uses the AmageDOS WAIT commend to pause until the time reaches the programmer as duril dud at a bit of Affexi here to subtract a couple of immutes.

before the programme's start time.
Lines 14 end 15 do the real werk for at least tell infraflexix te do it) by sending cor-mends to the video recorder to change to the correct channel end start recording.

the correct channel end start recording Lines 16 and 17 wait until the programme has finished and then send a Stop signed to the recorder Finelly Line 18 lets you know that recording has finished. There is a lot more that could be done with some more ARexx, but this ranit an

with some more Afters, but the sent an Afters than Afters than all fyou know some Afters elevady, have a look at ways of starting recording a minute or two early and stopping five minutes after You could felt out so Afters as own Delay() function instead of West This only scratches the surface of what can be done with InfraRex. There are pro-

grams available to allow your Amge to respond to voice commands, you could ameze friends end family with your

solidy to control household appliences merely to talking to them! Don't forget the competition for the best uses of Alfilink

No ARexx?

All of this assumes that the program you want to control has an ARexx port, but not everything does There are two solutions to this Firstly you can use any AmigaDOS commands through ARexx by using

the command port The use of 'eddress commend flash' for the DEFRECEIVE toollype flustrates this for e more flexible epoteset, fines is a program provided with Alfilmk to send input events (key presses, mouse clicks etc.) to your Amiga. Put Flass Flust found the rook in MRS farter to Flass Flust found the rook in MRS farter to Flass Flust found the rook in MRS farter to Flass Flust found the rook in MRS farter to Flass Flust found the rook in MRS farter to Flass Flust found the rook in MRS farter to Flass Flust found the rook in MRS farter to Flass Flust found the rook in MRS farter to Flass Flust found the rook in MRS farter to Flust farter to Flass Flust found the rook in MRS farter to Flust farter to Flust

have it available whenever you use your Amrga To send an event with RexxEve

you send it to Rexidents
Affects port Start Rexidents
and edd eddress REXXEVENT
"<rp>
"<rp>
"

To a button
on your remote control. A lest
of the qualifier key commands."

can be found in the Commodities section of yeur workbench manueil The "<>" brackets tell RexcEvent to process these two keys together, make Workbench think yeu have held down Right-Amogo while pressing E

OK it's a pretty useless example, so here's something better 'sddress REXXEVENT '<rawkey (command up>" will move the mouse pointer up A CDTV remote control has joyed style buttons, so you if you like you could use it as e cordless mouse/joypad by edding the relevent commends to each button

CD users may like to check out inputStream in the Magazine drewer it is similar to RexicEvent but with more features, like direct control of mouse position. It also has a more complete description of the averlieble input events.

That a rt for new remember the competion ennounced in last months CU Amige for the best ideas for AIRLink
Neil Bothwick

Table 3

Instruct InfraRexx to record a specific program on your VCR

the following ARexx Transmit comm

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 VID_RECORI

VID_t to VID_6 for the channel select buttons
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 101

121 'Run > Allt. RequestChorce > Ntt... 'AlRlink' 'Hecerding chennel' Chennel ' StartTime'' 'OK''

13) 'wart unti' StartTime
14) address INFRAREXX' 'VID_' [Chennells) address INFRAREXX' 'VID_RECORD
16) 'wart' 'Proglength mins'
17) address 'INFRAREXX' 'VID_STOP
16) 'TRUN >NIL RequistChords >NIL

18) 'Run > NIL RequestChorce > NIL AIRImk "Recording of channel Channel finished" "OK"

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Arrented years scripting or create you look your resolvent or or or greater your Advanced years scripting - create you look your resolvent or firm on demand service they your modern dam simphone (make and receive patte you STEss Pro and your modsetty who has called and left you is message. YOUR OWN MINI-BES mand the selection of t

One or more secure (score* (access ervise)



Moin Window (showing a lax transmission) **High Speed Serial Cards**

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11 Commercial Programs within NatConnect v2 VOYAGER-NG

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them into X-Ard's GUI and allows you to control the film)

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Octopus Octopus is in new dock bar prestos (based on the

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mined adaptor or nearly five times the speed
a 33 8 Kops analogue modern, Web air

Choosing Your Modem

grams have about help you consent he modem for your neptle. For the price, a 33 ft's modem were wiseled for money are a small card in not aboutlety incorporary. A 55th modem is it good application in the modern in a good application in the modern in a good application. The modern is a good application in the modern in a small card in a finite policy that is about about the maintainness paped as reach 65th moderns comment around 44-45th the entire and the finite he modern commentation from modern and sufficient for a card with a 6th modern first this business and sufficient for a card with a 6th modern first this business and sufficient for a card with a 6th modern first this business and sufficient for a card with a 6th modern first this business.

Modem Comperison Chart® 'Time (shown in minutes) taken in ideal conditions ISDN is not affected by Ina quality, however) to download a 1940 Sta by

Various Modem Pack Options

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The Net on Speed

High speed 56K modems have arrived and the cost of ISDN has fallen. We take a look at surfing the Net at unparalleled speed and unveil a new free Net trial.

of being sampled turned into digital infor mation, fürned back into analogue and the modern at the other end turning it into drai tel again it's complex and it's really quite

rocket scientist to a tool for the masses. It's now common belief that every company must have a web site and if you can't E-meil them, they clearly eren't a mordern happening company CU Amiga hes run Iwo main Internet deals specifically for The second with Wirenet. We've also removed up our Net coverage and implemented the comprehensive CU Online to match the ever growing number of Arriga users on the Nell The letest and greatest thing to arrive in

n the last few years the Internet has

moderns. Probably because of this facilitate. coms operators have taken a frash look at the judicrous charging structures for an pider yet fester, technology That Lechnology much faster than moderns and it's cheaper then ever As a Inbute to the Thousands of die hard Amiga Net heads who bomberd uswith E-med every day, CU Amiga takes a look at 56K modems and ISDN

your telecoms operator is essentially using an 8bit sampler each way end an 8bit sample player. The sampling rate used is BKhz. Madem lums data to and from your Amrga rnto sound which goes through this process minus the analogue to digital and digital to analogue. So it is amazing that the telecoms operators charge so much more for installa-Iron and rental though thankfully it's lower now The ISDN equivalent of a modern is a Terminal adaptor' or TA for short. This just interfaces the 64kbps stream to your computer and also looks after buffering, date compression and the MultiPPP prolocal if

ISDN comes as standard with two 'B' channels which have a 64kbps capacity each. If you really went the ultimate in to combine the two with the MultiPPP protocal and have a single 128kbps connection to your Internet Service Provider I find it more pradical to use 64k only end stay on for longer since many tasks can be done at The same time and it ends up more efficient over time ISDN has several more differences also, the main being that when a connection is requested to a telephone number there is no dialling and no modern rate negotiation. There isn't even a log in procedure to enter username and password

ISDN service table

Min contuct.		2 years
Connection.		E233 83
Rental Otr/Yr.	£157.16 /	£628 63
Cell Allowance		£123.38
Cest Per Year *		£559 25
Cost First Year **		£739.08

Min contact

€587.50 Rentel Otr/Yr Cell Allowance Cost Per Year. * Cest First Year: **

Min contact: Rental Otr/Yr £413.60 Cell Allowence Cost Per Year Cest First Year €883.60

assuming you use all of the call ** Installation and rental only (These prices ell reclude VAT)

■ BT's tele-

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s Juted in millisoconds, the 64K instantly dotoctod by the ISPs . s and the PAP/CHAP username and word system is used rather then a script. a 985 style login

. hat does one need to get ISDN for the Arrice? cstly a normal telephone line isn't acceptate so you need to get an ISDN line fed "his done, you'll have a box on the a th an ISDN pack on it. Next you need Terminal Adaptor, Naturally for the "we're generally the best anyway. Than wa eed some form of high speed serial device the Arriga to do the ISDN TA justice. The as serial port is stressed on the 56K moderns, fet along ISDNI Finally, we'll need are ternet Services Provider (ISP) that sup-

us ISDN, drel in There's no doubt that ISDN is more costly a stile more complex. It s not one for the casual was browser However if you like me, spend whole evenings web blowsing, downloading or even intend to network a few hines up to the same connection, ISDN wast the ticket. It's fast, it's inhable and it's the next greatest Net status symbol alter

ISDN experience with BT

own domain

23 38

87.50

13 60

21 88

eems BT are paraneid about not making hugh money (I would have thought £100 e second profit isn't bad) so there are numers factors to influence which package is er for you, if any at all If you take a look at he BT ISDN table no matter which service choose you can expect to gay between and 800 pounds in the hist year before costs Holy cow it's not cheep

Start Up is the most common with the Swest installation charge. However the high really rental and a minimum 2 year contract an be hard to swallow It's still the cheapest pence per minute for a UK call Sy minimum okerya for all calls, prices include VAZ Different prices apply to payphone and BT Chargeourd calls national vou - the caller national over 35 miles dantime Men to Fra Econ - Com recional ny to 35 miles evenmes & night-time Men to En before San & after 6pm local within your local aali araa weekend

overall for the first year cost. Low Start can be attractive for the 1 year minimum centred and low rental. It requires en initial outlay twice as much as Stert Up. Either way it looks like BT isn't short of a beb or two If you do have a cable operator in your

Midnight Fri - Midnight See

area, give them a call and find out what thay charge for an ISDN service suitably aimed with BTs as a comparison. We didn't find anyone at Cable and Wireless - who much of the UK cable francheses - and Mercury. who would be helpful at all in providing ISDN pricing BT offer incentives for ISDN from time to time. You'd be well advised calling BT's ISDN hotling to check and see if there's a current scheme (one was about to expile as we went to press) and ask any

other ISDN questions you may have BT's

ISDN hotling is 0800 181 514 The Final Cost

Discount schemes

BT used to keep its discount schemes a secret until the competition hotted up There are two types of service, business

For some reason BT refuse to acknowledge that an ISDN can be residential so an ISDN service is classified as business. Your standard telephone at home will be usudential It's supremoly important to be aware schemes to seve money on cell charges

Residential.

The greatest BT discount scheme which is still under utilised by Net users is the socalled Pramier Line £28 20 per year gets. you a global 15% off at calls. Virtually any

ISPs supporting ISDN, K56Flex and X2

Wirenet/U-net	01925-496482	Yes	Yes	Yes	Yes ***
Demon	0181-3711000	No *	No *	Yas	No
Enterprise	01624-677666	No *	No *	Yes	Yes
UKOnline	01749-333333	No *	No **	Yes	Yes
Pipex	0500-474739	Yes	No	No	No
Virgin	0500,458800	Yes	No	Vac	No

These ISPs claim to be weiting for the official 56K standard to emerge, despite the fact that existing X2 and K56 ISP modems are upgradable to the standard

** Support was claimed to be coming soon

*** There is a charge for using 128K ISDN



way cannot be turned facts before with on Analog to Digital converter and then loves speed in the complex conversion.

On the heteron we have ASSFlex which allows straight through consequence.

tion from the server to the cirest. The result is a logical described apane.

cone falls into a usage category where Premer Line payed 15 vol stop gar Talleng Pornts to ryour phone bill which can be exchanged for Air Miles Frends and Farmily is free so everyone simply must sign up. This gives a 10% discount on 10 nominated numburs So with both schemes in place the discount is 25% off local calls which is identical to Busmess decounts.

to Business discounts of the substantial service of the discount of the substantial service of the sub

Business.

The Business equivelent of the Premer Line realited Business Choices It comes in 5 tens for ever imcreasing bills, normal home usage will reality only be interested in Business Choices: 1 For e charge of £5 85 per quarter, you get 20% off local calls and 27% off Bugonal, responded for International cells. The in a citually quite impressive comprised to Premer Line so It reduces that cost of a Nat call on weekends to 489 per hour However the Business equivelent to

However the business equiverent to Friends and Farmity as all title less migressive Key Numbers costs a once off fee of £10 and gives a saving of 5% on 10 norminated numbers. Naturally one of those will be you ISP number. This is on top of the 20% discount for Business Chorces so the net saving is 25% so that an hour on the weekend will cost 45 pence. Not bad

Conclusion

While I doubt that enyone would argue that BT aren't being greedy with their ISDN connection and rental charges the on line charges for ISDN and reguler telephone lines is lower than it's ever been. 45 pence per hour isn't a lot to pay for an hour on the internet on the weekand. A normal modern.

service with a couple of hours a weekend of use is only going to cost £3.60. If half your money goes to the ISP ecoount,

£10 per month for ISP account

£10 per month BT charges = 1.76 hours during the week (off peak) and 2,75 hours on the weekend per week

£20 per month gives 4 and a half hours of internet access per week. This is really microdibly good value for what you get it works out, inclusive of VAT, that a pint of beer in a pub costs the same as 4 hours of

Buying X2 or K56 Flex

When considering 6 BKF modelm it a impornant to check which BPs support the stanidered of modelm you are considering. Virtually all BSP support SSDN at least with single chancel as it's a standard feature of the modern racks they use. All of these ISPs leasture free web space but only Wiener and UKChine ofter Otered Arriga support. Virgin in particular will need to be harrassed miorolessing the detector of the premiusity cetter than use of the properties.

The lates 18K moderns are finally seeing analogue moderns pushed to the lamis of what a possible. To get higher rates than 33600bps, these new moderns exploit the fect that the signals are travelling along digtal Imss from the exchange to the home.

sync with the 8K sampling rate that the telephone system uses

The result is the these moderns can schewe higher download rates than the 38500bps maximum of strategin moderns that the 38500bps maximum of strategin divident of colors. The retas achievad vay greatly according to the quality of the lims but they very rately approach the EAR shears the moderns are said as thowever, any improvement it is available from large modern the greatest problem at the 40-48-64 yields commodern. The greatest problem at the moment is the thories are their conflicting standards.

One is US Robose's X2 end the other is Rodsveill.Lorent's KSFlex it he later is garing populerity in the UK and there are several brends of moderns supporting if where as only US Robotic moderns support where as only US Robotic moderns support X2 Performment was, with visuated both and found that they perform differently on cliterate thress with KSG being faster on one line and X2 on another so there's little between them

The future prifell at the both property standards will be obsolete when the official standard is amounced selfy next year. Most SKK modems are shipped with flesh ROM upgrades so that they can be ratio-grammed to support his new standard. The problem anises when there's no direct. Amige support, which is the case with all of them that we are owned in APC needs to

be used to apprece the modern so it's worth checking if you can send your modern back for a return-to-base appraide end what if any, charges will result.

ISDN, Moderns, the future The choice between instelling ISDN or using

= 56% modem ren't such a difficult one Bocusse of the very high price differentell you dihave to be mad about your Internet connection to consider ISDN over a stendard modern. That said, ISDN is normal by 50% quicker then 56K moderns for down dod – nearly wiver see fast for uploads it also has the capability of moving to 128K duel-homent for seriously fast speeds

Neither of these systems is ideal, hower or Many of us would tike a permanent non time-firsted connection at faster rates still in these terms the holy grail is the Cable Modern Connected to the cable telephone network, these provided near Ethernet spreads 24 hours as dev.

At the precise moment these are being triefled at venous cibile companies in the U as usual elong wey behind the wide spreed availability in the US and mainland Europe in the case of Cable Moderne and ISDN, the hing that you should do a call your local cable operator and find out if they supply these services.

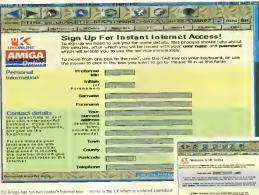
The next fing theng' on the foruson is the provision of Internet connectively through electrical societis. It might sound clearly some electrical societis. It might sound clearly be some electrity providers and Internet Servi-very home has electrical winnig research a nearing completion of modulating Internet data onto the power lines. This avoids the increasing of interning a cealer company serviced erea or using conventional pay-by-timitelephona serviced.

telephona services
The result is smiller to cable modern
except one doesn't need cable to the home
to use it. In the short term Cable
rer a likely to be the next technology ready
evertible with the "electric anternet" followin
much later Let's hope some of these next
generation internet connectivity options
armives sooner rather then late.



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nectivity deals in the past. Both have been incredibly successful with hundreds end hundieds of Amigs users signing up to get Netted. This month we've concluded a deal with UK Online to offer a month *free tral* in addition to the free NetConnect Lite software on the cover CD

UK Online tell us they have just started supporting the Arnige to the 'hilt NetConnect Lite - a 100 day one hour sassion version of the full NetConnect CU Arriga superstar rated package is everlable for free UK Online subscribers are able to take advantage of a special upgrade price to the full version of NetConnect for the special price of £39.95, a saving of £15

In eddition to normal internet services such as the World Wide Web E-mail and so on. UK Online will be mirroring some of the most important Amige sites in the world The first two of these sites are Amige Web Directory and the Vegorware support site imuch of the NetConnect softwere! In the ongui term a full Aminet millor will be in place. There is currently only one Aminet

Iv UK Online claim that their Aminat mirror will be eutometically updeted once a day. So all the latest Aminet files will appear quickly with highspeed local download rates. That is extremely good news for Amige Nat users in the UK and demonstrates UK Online's commitment to Amige support.

After installing NetConnect and running for the first time, you will need to enter your login name and password. To activate a tital

account, fill these in as Login Name: signup

signup

Lacve the rest of the boxes on this screen

When installetion has finished you need to start up the Internet connection using the Start/Stop icon in the Internet Dock Then you need to fire up Voyager using the WWW icon. At this point you need to type

http://www.ukanline.co.uk/publicbin/signup/cuamiga where it says Location

or make, the discuss Courts shot become being become file till.

just below the navigation buttons Fill in the form you find them. The first thing this form will ask you for is your Registration Code this is CUAM97 (ell caps) Please note that you will not have to supply a credit card number or such like. After the form has been filled in you will receive your own login name, password and E-mail eddress - write all these down! Close down Voyage; and disconnect from the Internet using the Start/Stop button that's in the

Internet Dock Start up the AmiTCPPrefs program Go to the user section end fill in the Login Name, Password and E-mail Address with the details you just received. Enter your name into the Real Name box and click on Save

You're now ready to go and use your their account for the next 30 days. You'll also receive a letter and an E-mail telling you how to continue using the service if you like what you see.

Freeware Round-up

We round up some of the best freewere in recent months and esk why the authors chose not to charge for this febulous software.



New Icons 4

Rather than sust an roon set for Workbench, Newloons is a completely new icon system which solves the problem where a fixed palette is required for Workbench icons to render correctly. This is evident from the horrible tones of Magic WB rooms when not usmp a Magic WB pelette

New Icons 4 comes with a 32 polour icon collectron for your standard Workbench drawers, distinct in the 3D isometric form The images are stored in the icon images in the topitypes of the icons, and the colours are re-mapped from whatever pulette you may have. These become mystble when the newloons petch is running if the petch isn't running you see the standard icons

There's been several major improvements to the New Icons system over time and the catalogue of New Icons collections has grown considerably to rival the sharaware Magic WB. One of the recent additions is that rooms can now be transparent rather than bordered with a bevelled box which Warkbench maists upon. The result looks superb as rooms float on the Workberich Version 4 is also considerably faster than ear-Irar varsions. Even advanged Workbench

need SIV whee and place for the Select Springs or, Statement 7 has seen

MIE TOO



has been quick to recognise the popularity of New Icons and now fully supports the sys tem Internally. It even allows individual turning on end off of transparent icons. We like the look of New Icons a lot at CU Amrga and it's been adopted as the loon standard for CUCDs although loongraphics is still used for the standard icon set

Whether you wish for the New Icons look or would rather use the package for your own high colour icons then it a just the trick In Irou of a Workbench update fixing the icon shortcomings. New Icons does an admirable. job of making Workbanch look much smarter and madem. The metaller re only too happy to remove the New Icons if you don't like it so you've nothing to lose.

and accordly it's totally free Something YAM shares in common with the rest of the software featured here The Swiss Marcal Beck onclosily attempt ed to operate YAM as freeware but where

one had to apply for a key which was free he'd have an indication of the number of users. He was swamped with thousands. upon thousands of requests to the point where he gave up and reverted to standard freeware YAM is an all in one package based upon MUI, which has built in text edit mg/E-met composition facilities. MIME and Ullencode encoding and decoding for E-mail attechments and a built in POP3 client for downloading the mail from the Internet Service Provider All that means there's noth-

ing extra to set up, it works out of the box. However in the tradition of excellent Amuga software, it sterts off simple but gets as complex as you'd like to go. It has an extensive ARexx interfece and the Aminet is ittered with YAM scripts to run everything from mailmo lists to downloading of files

from the Aminet we AmFTP The standard fritering options are there so you can import mailing lists into their own folders by matching certain rules. YAM is a superb mall client but it's not perfect with same performence assues. Fortunetely Marcel Isn't sitting on his laurels and YAM

YAM has got to be the single most popular







Autor Disputer | Score | Second | Secon

is due to be refessed leter this year A act which has a great many Amiga Internet sers excited for good reason.

SongPlayer

great many "I teld you so's. The enchmen has put in senous affort at writprograms to play back MPEG audio streams. Starting with the initial so-called uneral and Layer II types, Tavenerd write on assembly optimised player for Delfracker pable of playing in real time. II was thought impossible that even a mighty. 68060 would be capable of playing the latest fermal. MPEG audio Layer III. The latter took off in popularity on the PC albitst with life legally debous practice of circulating copyright material on the Internet.

Layer III provides eround 12.1 compression of CD quelity audio and results in playback quality indiscernable from the original et this compression level. At lower birder et and higher compression still, Layer III comes inte its own et an FM ratio quality system with missive compression for use by spooling audio over the Internet.

Towards I first Lipset III product, MPEGA has been constained yoursaid getting faster and lisses each time until it consumes less than 59% CPU power on a 60000 of less of less than 59% CPU power on a 60000 of less of less than 59% CPU power on a 60000 of less of less of less than 59% CPU power on a 60000 of less of less of less than 59% CPU power on a 60000 of less of les



cy, capability and quality. Hats off to Stephane for making MPEG audio possible on the Amiga with his impressive programnying talent.

MCP 1.30

It's comman for Amiga users to install Workbanch enhancing patches in their start up sequence or WBSIartur Phe enly common goal of these pat ches is they enhance or elter the behaviour of the Amiga's operariang system. The problem is that power users tend to apply many of these until their user-startup is littered with programs.

The German dus Statan Sammerfeld and Michael Knois crossed MCP or Master Control Program, to this and MCP is a mass ver collection of the backs and enhancements found in most of these commodities Portunately any oil of them can be activated through the use of the preferences program which mas separate to the patch statil, installed in the startup-sequence A small selection of MCP is patches included.

Alert/Guru capture and logging Copy/MemCutck, Crunch petch, DOS wildster, font search and cache, Force NewLook menus Formal Protection Mouse occeleration, screen blanking Gurick forward leyes patches CPU settings, requestor petches screen manager solid window moving/reszing and more Lols more in formal petches.

MCP-even has the functionality of Assigns Manager both in so that dystem assigns can be managed via 5 UII state in the mastillar of some states; IP has much hoster manager and the excellent Tools Also which will search for Tool Types patterns and bunch your own experison. All which will search for Tool Types patterns and bunch your own experison. All when the search for Tool Types patterns and bunch your own experison. All www. for sample, MCP will even force catna application to use less memory utilized than chop and time our requesters automatic and Privace.

tem enhancing program for your Amige. Though it's infamous for causing problems with some software which is not surprising given the range of hacks and enhancementa is offers. So with acreful use and turning off of unincessery patches, it extracts a let out of the Amige and it won't cost a penny. Gosh life is good. §





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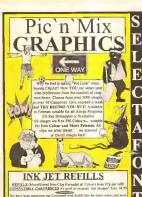
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Yes, it's here at last! One of the most eagerly awaited games of all time - and I could be talking about the review of Champ Man2 or the massive preview of

Myst here... chuck in new RPG Blade end the lest few hints and cheats for TFX and you should find plenty to get on with.

Reviews

- 36 Myst Preview
- 40 Championship Manager 2
- 44 Cannon Fodder 1
- 44 Cannon Fodder 2
- 47 Blade

Tips & Guides

- 50 More TFX Tips
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"You have just stumbled upon a most intriguing book, e book titled Myst. You heva no idee where it came from, who wrote it, or how old it is. Reading through its pages provides you with only a superbly crafted description of en islend world. But it's just e book, isn't it?

As you reach the and of the book, you lay your hand on a page. Suddenly your own world dissolves into blackness, replaced with the islend world the pages described. Now you're here, wherevar here is, with no option but to explora..."







doors is Whyt. Miss, step, who, a world of whomes and of the first, and greater to the property to the property of the pro

Playing the game

Myst or so a general work through a specific year. We will see you have been a specific year the specific year the specific year the specific year of year. He paid the specific year of years at specific year of year of years and year of years and year of years and produce year. Bender years are present years and produce years and years ye

An advancable garness such as Monthly Milland Ant advancable garness such as Monthly Milland Ant advancable garness which which it this score plant is one was too garne what to make of it. They graphess are gains along beneditating, Ally gain leves to go go on is the beneditating and gain level garness and mending a record and information, with those produces are in the manual. If you were to ordinate left, you dick on the left along on the season you went to exclude a lower proceed on the love. There is not figuliary and there such as the season of the season containing the season of the season deliness. By it is not a long the season lovely garness that a lade above of all the way plactures would not provide a By it is being a long to the season to the vertical of Milland and the season of the season to the vertical of Milland and a season of the season through your arms of the season to the vertical of Milland and a season of the season change places and one or septimized deliner change places and one or septimized deliner change places and one or septimized deliner change places and one season changed deliner change places and one season changed deliner change places and one season changed and provides and season changed the seaso to figure out just what the hold it's all about.
The key to the worlds of Myst are the houles of Athirs. These maggious treasured in some strange way passes to other worlds, and by unlocking this secretify of the pages you are unan unlock those gates and, eventually,

Myate is unusual in that port of the germe is finding out with the point of the germe is finding out with the point of the germe is. At first you are lost on the mysterious island with fittle entains of where you are and what you are outly the mysterious island you have entried a determ, the introdept like a something out of their Vir B Seese. The entries were the same and extens, part is fairly the point of point Vir B Seese and bears are shortly and the same is leaves an exhibition of the Point of the same is leaves an exhibition. At door between the same is an extens and part Virlain in Morrie, Art door browner, and the same is an extensive greaterly or cores the scenes white arrivals are shown in the point of 1920s streamfilm modern design with tasking you to who between whether. At

senegates in some of the 2500 beautifully mendered servers that unabout Myst, uning readers of the industrial from bendered of viampaints, layer afterny year.



A I weekin't îs what nd per - was tion to detail is what the game is off akoet. Leek casafully, er year're bound to mins assessing:



you at, an at it can be very which so leave. Mysis is very much a permit of desarrabbin. That are closes at lever the phote, holden amongst the 2500 benefitiely rendered images, if you are not cureful, you are sure to raise sooms. The three tips everyone should know when playing Myst are take notes, play with a hind (four year are batter than two) and, for the notify dark contract, town on the hiddenius of the mortivors.

AmilWyst
The history of the Arage version of Mysit is a somewhat convoluted one, it started a year ones ago when a purported demo, of the



And the future...

And the future...

One of the best there is bout Myst reaching, the Anilga in that it hidge put the platform on a more serious flooting for games. If Myst succeeds, then we can expect to see is for more top titles heading our way. ClickBOOM have done in Impressive job on Myst, and if you want more evidence of this then pop corts the Screen's use is the property for the control use is the property that the property the screen's use is the property that series.

onto the sunsort was size.

Sales of Arrigio Myst will also be a major factor is the destiny of Arrigio agraining. With uny luck, they should be healthy onough to encourage other such manith developments, not prily storp ClickBOOM which are briefly be one of the sunsorting of the s

Amina developers leen to impress.

Vie live a interesting prise. This month we have seen two conversions of big name tiles come into the office, but oddy they represent different ends of a spectrum. On terious edventure.

▶ Bight.

Grantranco Zela.

They don't set

Below That too

action Petreucu

rang dangerups-

ly forward ...

Gen gernen in

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tion theel

Championship Manager 2

■ Price: £29.95 ■ Publisher: Eidos Interactive © 0181 636 3000

You sae it advertisad at football grounds around the world and, at last, you can play it on your Amiga. If you have a lot of time, that is...

hen the annals of computer game history are written and the lists of long delayed games ere drawn up the Amiga version of Chempronshrp Manager 2 will be way up there with the likes of Jet Set Willy and TFX. At least two years late. With all pretty good maht?

This was always going to be a challenge The PC version requires a Pentium to run at Even the saved games nat up an absurd 22 Mb of hard drive. How could this be made. to run on an Amiga? The original code was homendously unaptimised. Compared to Champ Man 1, rt doesn't do enough more to justify the system overheads. Extract the core algorithms, rado the code in a nrce compact, efficient Amiga sort of way, recode the database structure and yipoe

Sure it'd require a Irtile extra RAM and would crawl as little on a vanilla A1200 but most of us have extra RAM and CPU power these days. Not everyone has a CD-ROM. drive yet but if you skipped ell the extras, it could fit on a few floppies and install on

The Ref's blind!

Hard drives apparently aren't common on Amogas As for accelerators and extra RAM,





the any minority of users who have these add ons are surely not worth the effort. As for CD-ROMs, the CD32 died out years ago. didn't it? The gospel eccording to Erdos

The result is that they asked coding house Sterling Software to write it for the most besic mechines going Ok, so it is guite nice that it will run for pretty much everyone if the price is that it runs like a dog even on the most souped up Amrgs it lan't worth it. Therein has the rub. Yes, it is CM2 and yes, it has almost all the features

the PC version has end one or two it doesn't, but it runs far too slowly. For those of you familiar with the PC incamation, cast your eyes to the PC vs Amma box which explains the differences if you are not, then here is the run down

CM2 is a football management game in the classic mould. You can take charge of any football dub m the land. You have to cope with the bottom line of all football clubs - success, on the pitch and m bank You need to whip your squad of westrels mto fighting shape for the sesson shead, selling the duds and buying in the sters as you go The world goes on around you, with

the four leagues, the Coce Cola cup, the FA cup and all those imitating internationals your players come back mured from all played out Just about the only thing miss ing is the Auto Windshields cup which noone but a Shrewsbury Town fan would mis

The principles are the same as every footie management game since Kevin Torr Each player has statistics which specify th level of vanous abridies from shooting to





A Sellit throwing in the old early cross. Little do Forest know what is about to but them . thock the buttom of the name for a least tree score to make Receiv around ...

tie stats are to allow you to get the right debate along the "10 shopting for Berger? \$%@Efing insene?" Imes. Once your eleven

Over the moon

he implementation of each of these elecotte menegement geme end in CM2 the molementation is excellent. The player plete it can take e while befere atrenaths of your plevers. On

t is very in depth, and should

ave stat fens drepling The jedics screen is e with custom formetions easily set p by dregama plevers te where en the pitch you want them end dragging bars to

ange of search facilities which allow you to munt through the very sizeable lists of home you like. Want to search for all players. lled Baggio? No problem Looking for a

alued at less than 500k with a speed of and 16 who are interested in a move? Just that CM1 most obviously lecked and CM2 me 3400 players not only most of the

league players m England but also leads of big name players from Scotland, Ireland Wales (7) end sbroad Unfertunately the datebase is outdeted about mint fer the and of lest seeson but don't expect to see

Paolo DiCarro at Sheffield Wednesday Once the game is at hand, you will get to find out whather all that hard team picking and factical tockery will work. The game runs well, with a reasonable indication of what is actually taking place. There ere e. cycles of promising balls in, followed by rather S corners. If you think a playar gross ing the ball in fer himself was spectacular you should see the headed corners they re enough in the game to keep you on the edge of your seat, and when the gerne ends keep the worst football eneral heppy

Sick as a Parrot

So where has it all gone wrong? Speed Wiren I said that this was a slow monkey, I drdn't really drive the paint hema. It is slow with a capital S L-O-W It could be overtaken by a stuffed tortorse end would eat dust m a race with e concrete breezebleck learns takes an absurd emeunt of time. Fire hour end e helf befere you get to see your It's not just the between game calcula-

tions which suffer. The game is full of odd Intile slew downs. It takes a frection of a secand to click on one of the names on your to the team page and exped to wait as it thinks hard about nothing relevant

On the player search screen click on a button to change a smale word of text and it The problem here is that the enginal code was too bloat-

ed PCs generally have stlly specs and this muons programmers can get away with writing code 10 I mas less efficient than it could be Actually Sterling have done an good job in curtem areas. The database

searches take about as long on a 14MHz '020 as they lake on a 100MHz Pentrum, and from the floppy drive to bolster the minimal

When we got wind of all this, we strong-The senous lack of support for modern spec Amigas. There has been some work on the game since, so that it now takes advantage in air Amiga (nendly way in its current state with ecceleration, but with recompiling, if

PC vs Amiga

There are a number of differences between the two versions, mostly

Apart from the changes mentioned slauwhere in the text, other changes

orth knowing shout are No full Scottish league, no managing have been cut out, as have all the back-drops. You can no longer access the top player lists eithough the player search screen can simulate this. Players can be bought immediately rather than having to wait for negotiations to take place in subsequent weeks. Right mouse olick selects "done" wherever the mouse is on the page, meking navigation easier

would ectually run at Pentium like speeds

What is more if could be hard drive based. Starling software indicated that if thera's sufficient interest, they'll consider selling a naich disk which will correct ell this but both Eidos and Sterling would have to Check the infe pages at the start of the

il was never going to work on a besic Amma without a full rewrite of the code, which Eides did not seem to want to do Desprie This it was written without taking edvantage of the hardware mest Arriga garners have these days, lummg a great game mile one which is elmost unplayable Andrew Korn



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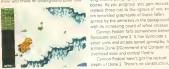
Cannon Fodder

🛮 Price: £9.99 🖿 Publisher: Guildhalf Leisure 🕜 01302 890000

hon the history of the real time strategy gome is written rather unique position. In evolubonsry terms, it is like the kangeroo perfectly formed for the specific ercumstances

Pleying the game is all hombing buts. You lead up to four soldiers on messions things. The mission screens are nicely drawn

scrofling backdrops of desort, snow jungle,



guys wander around shooting of you, occasionally with rocket faunchers or heficopters, while you attempt to wipo them out and destroy oil the barrack buildings which generate spidrers with grenades and bezookes The game is spread up by an assortment of vahicles which you can drive and the occasional piece of ingenious idiocy such as exninding sheep

War we are assured, has never been so much fun. You can telf by the Pythonosque presentation and ebsurd themo time Black humour is definitely in order here, with

lying around pumping blood from their dying bodies. As you progross, you gain recruits to ore reminded graphically of those fallen with its increasing count of white crosses

Syndicate and Dune 2 ft has Syndicate s small units and arcede spood gameplay, but Cannon Fodder hean't got the lacticel

Stor. Ad. Illek and CJ net ready for the next mission while a Pag of more recruits owart them change for niery.



the only development being that soldiers Syndicate either What there is makes up for it though

of a bargam too Right now stop that you men that a not sensible at all Andrew Korn

Markbeach version	- Age	-
Shopher of disks	3eGI	n_{n}
S DAM	1.58(a	911
Mach diek restalleble	Me	UU

Cannon Fodder 2



Price: £9.99 Publisher, Guildhall Leisure © 01302 890000 fight mis war on an elion planet. Their now

hen this follow up to Cannon Fodder first came out, response was lukewarm. People thought that it was a bit of e cash m. released for fittle more than the cost of a pack of fags and two cans of low grado gutrot special export, Cannon Fodder 2 is clossrer in the cheap entertainment stakes

The scenario has changed a little from CF1 even if the gomeplay hasn't

The mmi sonte army has quit become mercenones and



employers need to test them so they logicelly enough, hurf them through the time zones in search of a decent challenge. Hence the battlegrounds you fight in here are rather more oclectic than the onginal taking in desert warfaro. Chicago gengsterland, spacethe froot alren worzone Thore is certainly more variety in the

graphics than the original, and the apportunrties for humour are welf teken,

but there is unfortunately o conparticularly noticeable in some of the latter stages schemas can mako play s httle tricky

meke you tear out your heir, the levels most likely wriff CF2 has e steeper learning curve than CF1,

with a couple of easy missions at the stort to full you into a false sense of security before the trickiness zooms exponentially if you haven't got the heng of the game principle prior to this then you may never prok tho



geme up egain so untess you're e game nu mend it if you liked CF1 then there's no 72 more fevers to challenge you end a lot more leughs than a day m Milton Keynos = There's pite Andrew Korn

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from simple heals to surmoning the low horserren of the appoalypset fluss on met 1 meg A500 256 colour gix leet full appeach on AGA machines which speach on AGA machase which require a hand-drive and A mag last rain. Blade auto-configures to your system with CPU-BLT option for narchines with acceleration above 030. Blade in evaluation above 030. Blade in evaluation of the PLE option for Alive Mediasoft.



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bly detailed H-Res or

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e lar release in Octob v 1997, on Escapee wit set only statements for Action/adventure games one of the very second of the second of the

- A resident size CyberGFX support plained, minute logs, almosphinic Sinag Into al 70% minifulgiting system friendly concluse, since phenic digital impelia acque! ave, City Undermina, and space levels if more outfoot channel Keylocard, Joyethok of Joypea man waiting of influence permiss, with John.

- at variety of different enemies wit relia development by a large team?

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ber (Switch only)

Blade

Price: £14.99 Publisher: Alive Media Soft @ 01623 467579

New software company Alive Media kick off with a budget RPG called Blade, Get ready for a dungeon bash that goes on for ever...

trep on your broadsword, it's you job to plunge mto the dungeons below to defeat the hordes of evil before they overun the land 11? bet you've heard that one

Turn the lights down low and be very very quiat. We re hunting monsters Proferably of the big and slimey variety because those are the sort who require that you and not some other slouch defeat them. The kind that earn you gold, exper ence, and ultimately the respect and admira-

on of all of the little people whose meaors. existences you've saved by your ections Of pourse, you don't have to get your hands dirty. Technology a evolved so far that you don't have to even pick up the joystick touch the keyboard, you can do all this



you had to peg it in terms ecronyms. something more informative than that

To break it down. Blede is a computer ale-playing game meaning it's got its roots the swards and sorcery peper and dice aimes as well as influence from the past

15+ years of computer RPG development. These are not a uniform group - there are some CRPGs which focus very heavily on puzzle-solving, being in the right place et the right time with the right password or good example. Others are more "back and slesh", with a loose set of opels and puzzles but mostly defined by fulling more and more monsters to accumulate power. The Ultime series exhibits this tendency. Blada is rather

more influenced by the letter group 3D-isometric means, well, what it says, really. Most of us know tha typa, it's been done guite a lot on gernes dating all the way back to the Spectrum. The view is engled from above, not first person. And in being tum-based action is carried out in sequance, person te person, and each cheractar has a certain amount of "action points" which are spent moving, turning, fighting casting spells, and so on in part of lact the whole interface basis more than a nessmg resemblence to UFO. Enemy Unknown. although it's got far fewer things for you to worry about a the inter-







Aft teken e sekila lest there they are at the shop at last.

Anyons get 58s for a broadswerri? Miss's gent maty

frguratrons - best expenenced on an 030 or battar AGA machine with hard drive, still playable (just) from lioppy on a base 1 med

Exploring the structure and the world of Blade is a series of pleasantly surprising simplicity when it's most engreciated like in the mterface) and haad-shaking disbelief at a grossly overcomplicated issue - but more on that lates

Forming the party

It's about more than getting the beer and pretzels together. Many but not all CRPGs. are based around a small group of adventurers rather than the lone quester in Blade. you form a party of 4 characters from a pool of seven These are, mino particular order. the Warrios the Empath, the Fif the Dwerf. the Wizerd, the Clenc, and the Thref Unlike most CRPGs however you don't get eny say whatsnever in what these characters are

...and the hack

Blade Is the brainchild of one Mark Sheeky, whe according to the geme credits was respensible for sech element et the geme's creation. It makes an interesting test case for those of us who feel that eften the best gemes of all time came from a single hand Blads , will not quite be remembered with such games Pert of doing that wall is recegnizing your limits, and Mr Sheeky's 3D medeling skills jused for various art in deterl and intre shots) leave something to be desired. The gemepley could have used some belstering to give it a bit mera "fullness", perhaps frem a collaborator The music, and what there is of sound effects, ara hewever quite gend.

like - there are no stets to randomly generate or pick, no krt color to set you can't even

That's not such a hornibic thing, actually, since that can often be tedous and offiporting to casual germors. People with paper RPG experience usually odn't mind the task of chemicals crossion but those with shorter attention spans don't always went to take 30 50 minutely just to get ready to glavy a germe in this. Blade has made one of those poortive messarian individual states.

The seven characters each have distinguishing features. The most bland is the Warnor - he can fight and that's about it, eithough he does fight rather wall Wizerds Claints, and Elvas have spell powers in dockning order of powerf and Elvas have spell powers in dockning order of powerf and Elvas have spell powers of the abilities as well. The one lates eating character system and of power power spell power in an about the spell power in the spell p

Building the party of four involves trading of the abilities of the characters against one enother – you can go into the dumpon with an Empath Elf Cleric, and Wrand and be quite a mapponia powerhouse, but who's going to watch their back? Pergot to bring a third and that locked door is a much bagger problem. You begin to see the issues at stake

Now since Blade went and saved you all that time saving you from a long drawn out cheracter generation, you'd think it would drop you outside the dungeon door ready to go, ngh? Wrong You're actually dropped off on a risther deserted looking road in a town.



where a number of small shops stand ready to provision you for your journey to the depths. This is ok but remomber that turn beend system I told you about? Well, you have to move each charactor individually and it will take you several turns to reach a storo

And if you split up, you'll have to get everybody back together sooner or later. The sin't so temble in and of rueff since the game moves pretty responsively to your commends. But there are some really unnec essailly annoying issues hare.

The shops ere spread apart, and while your characters come with an Initial endowment of gold, there's more gold scattered around the town that you should pick up so you can afford some of the better items, and so e Wizard can buy a spailbook qurcker There is an upside to going after this gold that's been lard out in plein sight - it lets you get used to the geme engine without a gob-I'm breathing down your neck. But the downande is thet it takes half of forever and really chould have been handled in a more officient menner then sending you all over the place doing tedious tasks. This is one of thoso Incomprehensible complications that make Blade a chore at times

The slashing

Except for the shopkeapors and manks in the temple there's no srgns of life anywhore an the surface. (A few randomly moving people would have broken the menotory presely but no such luck)

have broken the monotory mostly, but no such luck.)
Once you enter the dun gean, though, trouble will come looking for you prest ty quickly. "You see a monster", or so the optional speech for HD owners will tell you. At the outset they're

relatively weak heroes too You'll went to whomp some monstors collect some treasure and experience, ratire to the surface to cash in and heal up, heed back he and so on. The chellengo gets steeper as you get more powerful, of course.

In case you were worned or concerned about it by now the game does have a plot we alluded to at the bogmning. The and Oeal was so evil that instead of just killing him.



A Concratised mostery measures hooking pretty confected by a wizard and his amoring investible disapsearing tricks.

(which never works on these really evil guys)
he was impresoned in a Plot Device
And when an earthquake broke open the

Plot Davice, Geal re-emerged and brought havok and meyhem upon the land. Boing the only four starting heroes with a free aftornoon, you get pressed into service. Pretty stendard stuff for the aforementioned monstress-whomma.

assembly and the second of the

The great balancer against quality is pince. As a budget release, Blade represents pretty good entertainment value it vall wan few enemies, but is not likely to start a cult or be the source of apinted debate. Being averlable for so meny configurations, in both ECS and AGA graphics modes, it balances accessibility and technology fairly well.

y and technology latiny vee.
If you give it the chance — more to the point, if it gets the chance — Bedo really export, give the chance — Bedo really export. There is a floor from to more the velocity give it is a floor from the chance is given by the property of the interface means you won't be watting all dry to get to the purchaine Trum the lights down low and stock up for that long half, because Blade's the sort of apro genor draft, if it gritte you can more the following a florid promise to find a property very guesty. ■

Jeson Compton



Mack and stash is fun, but on leave you amaty.



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AL. I'H "A buffered IDE interface is essential to avoid prerioading of the A1200's ARNING IDE port when adding extra des nees! Jahn Kennedy - AF - July 1997 to rempted to skimp. Fit an hyotach 4-way IDE/A1AF [3-chip buffered expende gs a Hardth, The original and hest - Just £39 95 Now with 50% discount off EZ-fDE software

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Amigs Format - 96% . An aircelately suspen his Amiga Shopper - 90% ". This is a gooder see

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TFX Tips



Back once again with some more tips for the game that just gets better the more you play it, Tips Central this month offers some advice on survival, refuelling end frankly, cheating. If you've still got any queries on TFX, send them to 'TFX Q+A' at the usual CU Amiga address.







A Mid-air refeelling requires you to 'duck' with a purpose-half refeeller ploss that patrols the sking at avound 30 000 feet - a delicate equation that can go burnley wrong

Refueling

There will come a time when the liger in your tank is exhausted and you run out of fuel. Fortunately for the forgetful, you are warned that your fuel is running low, in which case the time is righ to refuel. You have a choice Find a friendly runway and land (where you will also be re-armed)

. Find a KC Tanker (e refuelling aircraft)

Both methods are not easy and require practice, but it should be noted that loads of bonus points are on offer for refuelling in the arr. A KC Tanker is always full of fuel and on standby (above the clouds if it's a cloudy day) so fly high. The tanker usually operates at a service level of 30,000 fact and at a speed of around 300 knots. When you're close enough to the KC Tanker and match its speed it will release a fuel line otherwise known as a

Underhand cheats

Here's a great chest that lets you skep much

if that's not enough, this cheat should see you through the entire game. Whilst flying, hold down the left Shift key and type PLOP This

A You can use the virtual cockect or exterior views to check that your refuelting house had been extended in anticipation for the randozenes

· Press the Del key to open your arroraft's refuel eccess

EF2000 Refuelling

A fuel tube is located at the front light-hand side of the arroraft (you can see it if you use a Virtual or External view). The Inck is to fly so that the Tube pokes mip the end of the boom released from the left-hand feeding station of the KC-10 Twm Boom Tanker When you manage this The been will lock into place and rafuelling will automatically occur. The no met fuel feed rate is approximately 300 gallons per minute. The fuel



A Ouce you've banked up, you can reloc for a whole an your tanks are replaceshed As you aged to approach the releviles at roughly the same speed for a smooth 'doch', it's heady t ture an Timeways mode, but it should be turned off before this point to aid final adjustmen

F-22 and F117a

The prior of an F-22 or F-117a has an easier time refueling. The relied access is at the rear of the ancialt directly behind the cockpit. The KC-136E single Boom tanker will bush a probe into the back of your arcraft. All you have to do is at tight and keep your speed, heading and altitude constant.



Emergencies

In Binding, meny things can go weeking, if you, secral it is elected year aged fainting may be meder much haided, but attempting or only all individual and individual and individual and individual your acceptance of the second of the second

Gest damage could brevert you from either retracting or lowering your undercarringe. If you cen't lower the undercamage, land without it fry to keep the VSI very low, and deploy the basks chute (Altib If you have one on touchdown, which should bring you to a half is their more quickly. If things look bad when you hit the ground, elect.

If you wheel bases are damaged it will be harder to step. Design the base charts and as based or if you look are careaing off the off the runway deploy you steese hook (ii). Even striven yet as created of the runway deploy you steese hook (ii). Even striven yet as created oddles for emergency landage for to only exclud causes. If you cannot exclud you and in the striven yet and the second of the strip of the second of the second of the strip of the second of the strip of the second of the s



— Summitting in a gine hadly wrong hera, but for a while at least it's still people to can tried the plans. An unexpected funding should be attempted, but if he adding and enclosical fullers causgile against yor. but the eject betton (Except) to many your stin.



into the back of the rebuilter plans. While the reliefles is quite insyring of cack-banded pilots, these is a limit. No guld stars for this mission than



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ips Central



Here we have another set of cheats sent in by you lot, and over on the next pege our brand new adventure guru Sjur Matheson all the way from Norway, does some expert adventure solving for us.

First you start conquest game as usual. Then click on the Game. Setup ican New select custam custom game and then game. aptions Click on OK to get nd of the game options window, then click on evil, then 2 players and finally cancul

enamy will be unable to aller the

We recieved a lotally wacky letter Irom Chris Lahabib from Croydon

with some ups on Syndicate even people and enemy agents all you do is drop a weapon, click on it again to pick it up but then qurckly click on a foreign icon as the agent bends to prok up the

wespon, so it's unsuccessful he/she trundles off and picks up tionary) Cars and trains appear as

weapons, and amazingly you can solonks back onto the

road, then your car travels m and cul of vision along a single straight line across the screen



Rise of the Robots

rt sounds. According to the manu-Electrocorp droids to light each Norway has found a way to get

Salect the two player game When the handigap adjustbart goes past the sixth market markers which makes nme in all?

The geme should now start Just make sure the bar is between the sorth and so-



Road Resh

clarms to be suffering from 'time superb collectron of cheats for

First off type in 112233 011H7 or VUKBE 27QAG as your password to get an infinite emount of money and that super-duper top

In order to was any race, you need to drive into the rough, all extreme of the play area

Keep your control to the right extreme of the pley area has road like qualifies so that you can maintain lop speed

Trees and houses will hurtle lowerds you, but their icons vanish only just before they come to do the 'up-nght manauevre white you sit back and get the

Civilization

Here's a magnificent little cheat chep by the rather unusual name of Cheezy in Grimsby hape it s not envilving to do with the state

When you build your first Chest Mode Active' and find at least 50,000 glittering gold coins in the bank. Also, as a bonus the antire world map is available to

You need help

If you would like some help on eny geme – or you have some tips that you'd like to share with your fellow readers – then please write to us at Tips ntral at the foll ur envelope Adventure or nde eco , late of Dogs



Adventure herplin

Monkey Island 2

I'm stuck on Monkey Island 2, can you sell me have to wor the suttine you sell me have to wor the suttine competition? On the seay game, or likely Island I've got to the X mark bombed it and went down. I know you've got to make a voodoo did to be whose the canded and got most of the impredents but can I get something off the heed and also can I get in the drawers in the room with the broken down grop machine, is there a way? Please help? John Jordan

Winning the spitting competition is quite complicated. First you need to get a librery card on Phatt's Isle. Then go to the bar on Scabb Isle, use the eard as ID, and buy the yellow and blue drink. Hay you aven get a suplementary crazy straw! Mix the two drinks and you and up with a green one and you and up with a green one

Now it's time to set sall for Booty Isla and try spitting. Didn't do that well did you 'Try looking at, and then moving the flags You'll need a distraction. Try the horn on sale in the antiqueshop Try spitting and you'll see a slight improvment. Try again and this time use the crazy straw on tha grean drink to get thicker spit.

Still not good enough?
Try one last time, and this time look at the scarf worn by one of the spectators. Spit only when the wind blows, and you should

be champion.

The Speris Legacy

Dear Helpline, I em stuck on "The Spens Legacy", In the outlaws Caves, I am asked



by a statue called Gorloc to find a nddle. Where is the riddle?

I can't find it anywherell In my inventory there is a severit, sheld, bombs dagger, shalter sword, Index strength polon. milell, screwdrives, gloves gem, shoes, con hammer and cutters is there something I should have picked up earlier? I we obvously missed something but what? Please help me as the key stuck there for almost s year! Kerry Bromfland, Lanca

You naid to go back to Gillihards Rhina, as you sam to have moved on a bit too quickly I assume the shoss in your inventory are the hyper boots. Find Rupert and talk to him. Than walk right away from him until har off screen, turn round and run him down using the hyper boots.

In pair doors

Ha'll drop a secret pass. Use
this to get into the informations
building, where you should find a
chest containing the book of riddies but with 3 pages missing. To
find them, locate some barrels, use
the shattar sword to smean them,
and Presto, the book is complete

Give it to Gorloc. I would elso try playing around with the switchas in the The House of Mystery Left, right, left, right, sounds like an interesting combination

Enchantia

On curse of Enchantia I have given the fish to the eskimo in the ice lands but how do you get out and what do you with the fishing rod?? Craig License

Firstly you should make your way to the big ice cube, then try fighting the fishing pole. You've now made a fire! Let's just take a

moment to add up avarything.
You're standing near a big block
of ice and have just made a fire.
What could possibly happen next I
wonder? ... One 'another creature
anjoys it's freadom' fater, and you





should pick up the ashes and walk along the left side of the screen till you meet the Walrus

Now I don't want to give too much away but you have to get across so, use the Welrus as a bridge, then screem for help. You never know you might just get it

Simon the sorcerer

can't seem to get the beer barref in the pub. Pleaso help me

Also I fined using the matches on the beathive which is meent to work but won't please tell me what I m doing wrong?? Louis Shanahan

These two things are actually connected, You need to use the way from the beshive on the barrel in order to plug it. Then the bermen will think it's empty and carry it

Now, here's how to get hold of the wax. You should head for the castle. Use the clapper you should have found at the blacksmith's, with the bell, and a long piace of hair will fall down. Climb up and linto the window, then talk to the old, and kis her.

ahistuo

Whoopal Take the rapulsar back to the chocolate truffle house and let it have a little taste of the door Once inside, take the hat and the smokebox. Use the smokebox on the bashiva and there you go

Back where we started, in the bar, ask for a drink to keep the barman occupied while you do your magic stuff.



Big Red adventure

Big Red adventure. I have left my hotel room and picked up the rops in the foyer, but can I find a way out. It is driving me completely mad! Please help!

Dickie Dimes, Chassington

Well... You probably got up on the wrong side of bed. Go back into your room, try the bad, and get up on the side closest to the toilet this time... only joking, it takes a meetermind to figure this one out so you shouldn't feel

What you do, whan in tha foyar, (congrats or making it this lar by the way) is give your key to the Porter. Then move your cursor to the bottom of the screan to get out. Did you remaber the TV-aerial by eny chance?

Police Quest 2

embarressed.

Could you help me with a problem in Police Quest 2 I'm at the motel. I've shown my badge and the mug shot of Bains to the guy at the window, so I know what room he a in but I'm unsure of what to do next Stavan Fletcher, Buckinghamshire

Get back to your car and radio in a report. Than you raquast a warrant and call for backup. Ramambar 'Safety First' just like with important files on your hard

disk .. always make backupal Well. Enough wisdom. Get out of the car again end

wait. An officer will come along and hand you the warrant. You dow, and ask for the key to the room. Go there and wait for your backup to arrive. Be sure to stand at the right side of the door when you attempt to open it as as to avoid being shot. Now you wouldn't want that, would you?



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What a monstar collection of Amiga goodies we have this month! You'll pry my

Amige from cold dead fingers.



Lerry Hickmott examines three SCSI fletbed scanners. Are the big branda bast or will a cheaper unit stump up the goods?

Imaginex

This software add-on to Imegine fella under John Kennedy's close scrutiny. He asks if it's worth the money

HiSoft CD-R kit

Plummeting costs of CD recordable disks and CD recordable drives now make write-your own CDs on affordable reality

66 Sharp Minidisc

In a follow up to our coverage of Digital Compact Cassette, Mat Bettinson checks out Sharp's latest portable Minidisc player/recorder.

69 Viper 520CD

Tony Horgen checks out Power Computing's ell-in-one 68020 accelera-tor and IDE/CD controller for the A500.

Evetech 120Mb floppy

A floppy drive that uses 120Mb optical floppy disks as well as 720K/1.44MB PC disks? Met Bettinson asks if it's really true.

PD Scene

The World of Magic, Splat 2, Hotdog, Tossword, KidSTOP V5.3. Steve Bye reviews the lot

PD Utilities

Steve Bye telks through some hendy utilities softwere evelleble to us

CD-ROM Scene

games eveileble from Epic.

Art Gallery

Andrew Korn atrokes his chin end estounds you with his knowledge of ert .. whilst telking you through the wonders of Art Gellery











Scanners

Take a look at the new breed of cheap high performance scanners, along with some hot new software a tested by Larry Hickmott.

ce upon a time, the only choice the Amage owner had when it came to same to same to sent more or upon the house of the sent more or put up with a hard scanner, a fail woose than owning a PC for many. The only significant

as little as e hundred pounds.

On the Amiga however, this pince edvantage is compromised by evailable scanner drivers. Until recently, scanning software was very thin on the ground but the has recently changed for the better with this errival of the commercial package.

Senfuls of Invested town the signal All these changes with market mean that you can now take any prefed maps and use it, with your own propose, whather that is standard OTP work 3D endorming prophic designs, with site creation or witherest bus can sam imported doceatest to a retirement bus can sam imported contents to a retirement bus can be a proposed using participating in composed, using your scarriers as photocopier in conjunction with your disclaims to a photocopier in conjunction with your disclaims to an OCR (Copical Contents Recognish on the With press of scanners troop lover than ever you don't need much all an excuss to by your fort need much all an excuss to by your

Buying a flatbad scanner

The number of flatbed scanners available to computer users is mind begging these days. With so many to choose from the type of flatbed you buy will depend on many factors such as its resolution evailable optional extras price and most

The first near on your check lest should be an Armga softwere driver Vehinou at your scanner will be uselises. As a general rule, acarterier supported by commercial producinges like irragaPIX and ScarlCour should be line if however, you must make to using a scanner not covered by a commercial package. If you get an establishment member package, if you get an establishment because some non-commercial scanner all were because some non-commercial scanner all weres.

Next There's the subject of optional extras like transparency adeptors. These are light boxes which sit on the top of scanners and allow you to scan slides. From what I here seen of those, a dedicated slide scanner is better although I don't see any support for these on the Amiso.

The third point to bear in mind is the resolution of the scanner specified in DPI (dots por inch). Although you may have 6 3005pt acenter, you may find your software only allows scanning in lower resolutions. This may elso accur if you are

low on memory. However, a higher resolution sconner will be an investment for the future event your current software can timeke the best of a

If your current software part make the best of it.

In most cases, 100 to 300 dpt will be plenty.

It's pirty when you scan line art or make enlargements of small details.

Scanning requirements

The two man considerations as far as your Arrays to economical to RAM and shard dark space. For anything but very small scans you'll need a hard favire (preferable who planty to planty to planty a space for your scans is a good 100Ms fire at feest in ordist or your scans is a good 100Ms fire at feest in ordist or your scans is a good 100Ms fire at 1 feest in ordist or your scans is a good 100Ms fire at 1 feest in ordist of the stack up in the plant and an amornium of 0Mb of RAM. Sendicus has the usually applied in region of the scanning of the scanning

Finally, my overall impression was that most of the 24-bit flathed scanners reviewed were pretty close in terms of speed and quickly, which just left paces something which leviured the Heivitet-Peciant ScanJet EP Cheeper scanners exist but be very careful when purchasing such units because many of these require sharewere drivers and the quality of these does very a great deal

Epson GT-5000-SCSI



■ Price: £289.00 ■ Supplier: Epson UK © 0800 220 546

The desirability is an experiment of the save of the s

This is probably the most popular seanine for Ampigo coines and there are many reasons for this. The main one is competibility. There are quite a few sonner diverse for the 1900x200 dig GT-5000 and if's always been guite poor value, although that sharings has a record talley with price drops for mony of its closest competions. Unlike the Epsor GT-8500, the 24-bit CT-5000 science does not have duit prot is a you to ever to choose either

a SCSI or Parallel version of the unit. The SCSI model reviewed here comes with the large Centronics type 50 way connectors. Cables for this are easier to purchase than the more compact so-called SCSf 2 variants which are

The Epson GT-8000 is fairly ordinery to look at, as you can see its "footprint" so only slightly larger than the A4 scenning area it offers, and it stands about 7 inches fall with the top down it only hes two buttons one for power and another to reset the scenner Everything else is controlled by

software. The amount of control you have over it therefore is determined to e degree by the software you use to drive at The quality of scans from the GT-5000 was as expected, very good and if I we learned one thing using preson scanners it is that they lowe proved to

be very rehable over time. Cversil, 1 laked the Epson GT-5000 SCSI but its does clock in at snowd E100 deeter than the compresible Newtet-Packet of thering transversil above pints ScanClux 3 works well with this scanner dishough you can use a with other software covered on the following pages of this round up. Perhaps build quality will prove to be pulsa point in it fe inon term.

System Requirements: Worthook 2.84 or loca; little or orange, bord fully. More passenty and accessorate renouncember

6WELL An excellent scanner but or prized for the ferine market 90

Hewlett-Packard ScanJet 5P SCSI



■ Price: £175.00 ■ Supplier: Hewlett-Packard © 01344 369 369

This was the first time I had used a Hewlett-Packerd scanner end having had great success with their printers. I had high expectalisms for this budget priced 24-bit flathed. The 300x300 dpt ScanJet 5P is about the same size as the Epson GT-5000 end comes with two SCSI-2 ports, so it can be observed that the scanner.

Obviously you'll need a SCSS2 cable to connect it to you' Arriage You' abb have to connect it to you' Arriage You' abb have to set the SCSI DI Unickoing the coanner heads are certainly deuter liken on the other scrimers what is almoying bovever as the coation of the power switch at the back on the right hand adde of the scrimer, making turning it on end off a pen if 4's string amongst other devices furless you're got they arms).

Driving the scanner for the purpose of the review, I used the ScanJet driver from ScanQuix 3. This wasn't as trouble free as the Epson module. From time to time, I had some tricky moments with the previews on the

Scan to Disk' utility and a number of compt files as well, but what results I did get were certainly among the best. I put the corrupt files down to the hard drive I m using but users should be aware that this may heapen from

time to time so check your files carefully in the performance stakes, by time taken to scan images so quacker with the Scanules though the difference between this and the other two ant amything to neithy should about. Like the Epron 165000, Lued of Class: Souries to stach the Scanulet to the AT200 and used Scanulet to central of Lists and used Scanulet to octarior 11 and used Scanulet to central principles of the AT200 and although the principles of the AT200 and although the trailed free for a very Sconoloust of 4.0 speakable sold.

If pince is your main concern, then this is definingly the best of the three looked at here. Even if it's not, it's still the most highly recommended overall. It may not have the extra features of the ViewStation, but it does just as exactly a feature of the ViewStation, but it does just as exactly a feature of the ViewStation.



A Daing as impression at a tendetool, the of the Scanlet is a great aroun of genity and walks

System Requirements: Noticed: 24 or lace, life of source, lack direc. Hence and accelerate reconnected MYACLL

An excellent scanner on matter which way you limb at it.

Artec ViewStation

■ Price: £259.00 ■ Supplier: Gasteiner © 0181 345 6000

The 300x800 dpr Artes scanner has been around for a while now end all be comments Five had from customers are anything to go by the orby drawback with it in the past has been the software it comes supplied with This doesn't searn to be an supe orfumor ear it a now supplied with a vielsor of Scandusa 3 underturbately with Germen minual thought.

One of the adventages of the Artec.

New John of the development of t

To get up and running, I wasn't helped by

the tack of any matuations for unlocking the scen hields, setting the ID end so on, These Time assured by Gasterier, are commely provided One thing that womed me that would have been helped by documentation was that the scenner light stays on with the Artice, ower when its not in use that turned on!

At the end of the day, I was impressed with the After even through it was up against some still opposition it did what it was saked and you can't ask the others here, but it is costs more then the others here, but it is costs more than others here, but it is costs more than others here, but it is costs more than others and it transparency scanning more fair and transparency scanning more read! It a but trapper than the other two, many limits of scanning resolution with its coldection of the scanner scall control of the scanner sc



ScanQuix 3

■ Price: £59.95 ■ Supplier: Eyetech © 01642 713 185

Much more than just a scanner driver, ScanQuix 3 offers seemless scanner import features with your favourite graphics and DTP applications.

he Amiga his for a long time had to do without a declared searching package that divers us are have expeved for years with their scanned where the expeved for years with their scanned divers. Not arprove because ScanCulu 3 lets you see you scenner much more effectively You can use do no not all two microllevies either as a stand-slicine scenning interface or a six device to slicinity and and DTP packages. The ScanCulu diversity was considered to the scanned and DTP packages. The ScanCulu diversity was designed to the scanned of the scanned

ScanQuix: basic use

First let a take a look at ScenQuix in ils most besic form iscanning an image end saving it to drsk. Once a scan has been completed, the image can be saved to drsk using vanous.



A How about they for a next trick. Scan images straight into Pour-Stream 3 to out a grablem for Scandou 3.



A Scelle's anables you to scan text at high resolution as well as pholographs and other staff. It does not though come with any ODB leschmat.

colour deaths such as 8-bit 1266 colous) or 24-bit millions of colocist. JPES saving is supported for 24-bit images, which is hardy considering the enominous size of inw 24-bit mages of ever small attensions. Some Armya specific life saving options would have been not abute his HAMP (for example) but any half decart image processor will be able to convert between a few life types.

The only Irms scanning got middly complicated was when I had to set many of the stributes to controling the scanner. These sitributes vary depending on which scanner module is being used at the Irms and I felt were not that well explained in the print ed manual.

Scanning direct to disk

A full 24 bit scan at 300 gir of en A4 image is going to generate e furly goardin: It lie lar brigger than most Amige utder will ever hew room for in RAM. For this reason, there's a Scan To Disk option included, which cuts out the need to store the entits scenned image in RAM at once. This has scenned image in RAM at once. This has the inock on ellect of allowing uput lai large images to be worked on by those with small Amiges too, siftedgir don't better the lives of a do anything too ambitious without at least AMM in ISAM.

Now the good bit We now come to the real first point with

ScanClair de unique ability to let you scell inte a nomber of applications. These are lew un nomber but nevertheless provide a much naeded boost for those of us who do a lot of scanning on the Antiga. The programs supported by ScanClair 3 are ImageEX. Parsonal Phili Philogenines PageStream 3 and Art Department Pro.

The scanning operation in PegeStream 3 is should say Once the scenning module has been called from a PegeStream medic, ScanClux 3 appears on the same screen as PegeStream 3 and when finished, the mage is placed onto your page. It couldn't be simpler and firm scre firm going to be using this a torn truther.

The next lest was Personal Pamt 7 and despite some error requesters on booting the program due to the ScanΩcix scanner.



images asing a service of papeler scansors including those from Epase. Newlett-Packard, Artec and Mestak

driver having trouble with a device on the SCSI chain, once Personal Parti was loaded I was tickled pink to see how well the program want about leading the scanned imagavia the csual Scan Cox interface which opens up on Workbench.

Scanning into ADPro again proved to be no problem and I also managed to scan an image into ImageFX as well although this unfortunately wasn't without a few difficulties, none of which affected the final image

Now it's a photocopier!

The lest leature of Scandaix is the Photocopy program. The sim of it is to let your scan and print in the one scilion. There are two scanning modes, one for text and enother for photos with further choices for the resolution of the scan.

The end result of the copy process was an image better than you'll get on a standard photocopier providing you use a good quality printer with enhancement software. What I don't understand was why the authors have restricted it to black and white Let's hope we see some colour options soon.

In short, ScenCurx 3 is very good. Not perfect and many areas could be improved but I like it et old and it is just whet we need. With a price of £59.99, it isn't cheep but then it does eignest job of getting the most from today's powerful scannes.



la espectial perchose for all examper oweers

90

Other Accesories

ImageFX 2.6

Prica: £179 99 Supplier: Wizard Dev



ScanQurx 3 may be the new kid on one I have been using for years is ImageFX which supports Epson

Of the two makes, I would say that ImageFX seems to work best with the parallel-based Epson GT



A The program with the best reterious for ocounted in Emogretic 2 & otheraph it must he said, I d'il esperance a fem gitches with SCSI seasons and the application is three times were expussive than either ScesQa's or PowerScen Professional

eges we have on the Amiga, it's

price Al almost £180 it's looked upon as being well over priced for the average Amiga user, which ware. At the end of the day you

Cable capers

connecting them to an Amrga

Amiga If you happen to get a parellel scanner like the parallel version of isn tiany beller Forget the cables

give you, they won't work unless you have a special adaptor avail able from Eyelech Depending on what software you use. The type of cable will also very. All are parallel

most popular type of cable is an ed by many packages. That doesn'il make il the best but il does make it the most compatible ImageFX, ScanQuix, PowerScan

The moral of the story is to meke sure that when you buy your scanner, you get the appropriate cable or you could find yourself with a great scanner but no way to





A Everything from large full column scops to kept resolution block and white copies are possi-Me. Il sirect scenning into applications los't reportest, aback out PowerScan

Powerscan Professional

Price: £49.95

■ Supplier: Power Computing ■ Contact: 01234 851 500

Like ImageFX Powerscan many years and is a home grown of scanning an image with a mini-

It comes with a well produced more image processing functions than ScanQuix 3 but less then Amiga image processing) It is also designed around supporting the I know, no others. Its strongest advantage is price because of all the scanning applications.

My only reservation about the found very useful. If I hat a somethmo you can live without. Then job end very well at that. Could do with an interface change though





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Imaginex

Price: £15 Supplier: GOC Publishing © 01482 500597

Imagine is a way of life for some: could it possibly be improved upon?

here is no doub" sat at times Imagine can be a real pain in Editor, where most time is spent reating objects, can eppear every complicated Of course once it all clicks into place it makes perfect sense, but the learning curve is so

make Imagine easier to use is therefore very welcome indeed aspecially a new preduct from a UK seftwere house imaginex is a Imagine user-interface, and speed up every day functions. To achieve this Imaginex. explois a little known little used imagine

The Imagine Preferences Editor) you'l notice blue, and second there is an extra batch of buttons at the bottom of the Detail Editor Yes, Irneginax will speed up Imagine, but

net because of any increase of rendering speed. The time you save will be the time you nermally spend puzzing over the various menu epitons, because all the vital functions are now aveilable at the bottom of the screen Instead of hunting around for the menu eption le create an object you can

attribute windew pops up. The new select

points or laces depending on which aditing made has been selected. In fact, as you can see from the screenshets, plenty of ether commonly used features now have their own means you can new perform a Quickrender with a single click bliss

and has been chosen to reduce the firckening caused when running imagine in an interlaced screen mede. It's very relaxing on the eves, but if you den't like it, an ordinary

brown/gold colour scheme is provided On the minus side, mest if not all of the butters replicate functions which have perfectiv good Amiga-key shortcuts. You aren't do what you already do that little bit fester Impolney does mean that you can perform almost ell functions without teuching the keyboard, but it doesn't perferm miracles

Faster rendering?

Well almost As you probably know Imagine makes use of preset graphics modes. These are the image sizes which you can select

-	and .	
Parameters for depharing notice	Hantlerine Subgramel' emi	a Scanline
Picture Siries S	HIGH-SPIED-T MONTHS BUTCH HIGH-SPIED-T MIGH-SCHEIN MIGH-BITTS-E MONTHS GUTEN HIGH-BUTLITY-E MONTHS GUTEN HI-OUNTLITY-E MID-SCHEIN HI-OUNTLITY-E MID-SCHEIN HI-OUNTLITY-E MID-SCHEIN HI-OUNTLITY-E MID-SCHEIN HI-OUNTLITY-E MID-SCHEIN HI-OUNTLITY-E MUNTH-SCHEIN HI-OUNTLITY-E MUNTH-SPIED-THE MID-SPIED-THE MID-SPIED-THE MID-SPIED-THE MONTH SPIED-THE MID-SPIED-THE MID-SPI	File Fields sparsis 0,0,0
TITE LEVILLE	SIC Cooke	



A A chasse in culeur hut estice the extra buttens at the butters of the urrana The Detail Editor hou been upgraded

W Kow preset

make Impaired

PAL httpsy

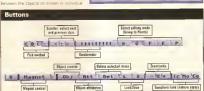
when you open a rendenng subproject from the Project menu Imaginax has PAL-ified all these from their defeult NTSC settings (so that a low-resolution screen is 320 by 256 insteed of 320 by 200) and elso provided some sensible AGA HAM8 settings. Two new mades given the nickname "Pixel" Burners' are defined, and these are small lerge enough to be visible

Other presel medes are defined with inkiel printers in mind. The settings have from 360 by 360 DPI to 1440 by 1440 DPI Te help you glan for these settings, a template is provided for you to load into your scenes. This is in reality a rectangle which won't eppear in your final scene, but is useful fer accurately cemposing your scene

Again, this is nething which you couldn't actually do yeurself it's simply that the rendering modes majerity of Imagine Users won't have bothered, er even known that the facilities exist, time in meny options and larger-than-necessary Lest-renders

> It would be easy to write Imaginex off as unimportant, but efter using it for a while it has proved aself very useful on my system, and I'd earternly not delete it. The esking pace is fair, and in short, if you do use Imagine e lot you'll find that Imaginex makes things that little bit easier and quicker John Kennedy







■ Price: £399.95 ■ Developer: HiSoft & Philips ■ Supplier: HiSoft © 01525 718 181

A plug 'n' play CD writer package for the A1200 is long overdue. Now HiSoft have rectified the situation with their Squirrel CD-R. dreaded buffer underun' m which the data stream dines up (even if only for a split secord). The result is a rumed CD-R disc disaffectionately known in CD-R circles as a 'goester

The Squirrel

This externelly signifies POM/CIA SCSI interface is just the trick of an A1200 Known to function perfectly with a write variety of Amga excelerators and various SCSI devices. The Squirral in a good general choice to connect a CD-R to the A1200 Three's allow the Surf Squirral with much the same SCSI interface but also sporting a high speed scriet port to the Net Hedds.

HiSoft tell us they can supply any combination of Squirrel variants, internal and external CD-Rs and of course the MakeCD softwere

Drive options

HiSoft will either supply a Philips CDD2800 or a Yamaha CDR200T mechanism with their 6 CDR bundle 80th are nuglity the same specification, reading data and raw cidda (CD bigital Audio) at six speed while they write attive Speed.

Here at CLI Amage, we are familiar with the CDR200 and its faster brother the CDR200 as we use them to cut our cover the CDR200, as we use them to cut our cover the coverage of the coverage

This is a little bit of shame as Drsk-At-Once makes it possible to master complex audio CDs with track markers and custom

leed-ins. The Yamaha drive on the other has is teutiless there.

The Philips also had a bit of a problem reading raw CD audro. Reading odds off a CD towards the end of a disc (the outside.)

edgel saw the drive lock up, report errors end so on The problem went ewey if I forced

The problem went ewey if I forced MakeCD to read at single speed though We've had bad experiences with the former Philips model, the CDD2000 but Philips seem to have froned out most of the problems. Given a choice I would still prefer the

to about £2 and lower if you shop around. At this price, this means CD Recordables (ICD-H for short) are easily the chespost renderm access means storage around. Actually writing to a CD-H is a delicate effort slow and time critical, but if the end of the day you have a 650Mb disk that can be read by standard CD Rich Moderns Most CDR drives can tread a lot fester than they write, and so double up as very applies CD-PMM drives in

That melaes a CDR diver more attractive than ever. HSoft have produced a pack for standerd A1200s which bundles a Squirtel POMCR ASCS in which bundles a Squirtel POMCR ASCS in the William of the Willia

The drivebacks of CD-R in the past Werk cost and the more critical nature of recording. The cost has come down and minosis here been media into recording relability, the latter accomplished with lerger internal buffers. When CD-R are critically applied disk, they must lead the drive with a continuous fillow of data funities other storage devices.] If the CPU or the SCSI but is interproped, the CD-R is in diagence of suffaming the

HiSoft CDR options

Because of the verying specification Amigas out there, HiSoft are very tlexible when it comes to CD-R packages Here are the main ones. SquirreICDR XL - External drive + disk, MakeCD and Surf Squirrel £469.95

Squirre CDR GT. Externel drive + disk, MakeCD and no SCSI Interface	
SquirrelCDR I: Internal drive + drsk, MakeCD and no SCSI Interface	£349 95
Make CD private version with manual	
CD-R media - pack of 10	£22.90

-

Applications

All this CD cutting is well and good but what can you restly do with it? Here's a few of the most common.

1 Backups Backing up probably won't be the major reason to buy a CD-R but when you've got one, a quid par month to copy the vital parts of your hard drive to CD can't be best. When things go badly wrong, having your antire system and vital files on a CD makes you feel

very good to have a CD-R

2. Library storage. If you have an application that requires filing of large quantities of files, be they scanned images, sound samples of whatever, CD is ideal it stores a large amount of data but is very quick to access One can also use multisession modes to append more data to a CD which has already been recorded to 3. Audio recording.

This is a vary nice application of CD-Rs. It's possible to read the rew digital audio from existing CDs into large data files. These can then be buint onto a new CD-R creating a perfect digital copy. That means you can make your own CDs with your favourite CD tracks which will work just fine in a CD

portable for exemple This might have been over the top

with high media costs but in recent times this is a very real alternative to other digital audio recording mathods A CD-R is a fraction of the cost of DAY or Minidisc media although write only once of course.

Yamaha dove, so it would be a good idea to request it specifically

HiSoft's external box for either drive can't be faulted with its SCSI ID selector and a reasonably attractive finish. Though personally I m not too keen on the Squittel

The Software: MakeCD

MakeCD has been covered in detail previware for the Amige, used to mester CU

MakeCD supports virtually everything there is to support except for Disk-Al Once made If you want to do fancy audio mestering, the expensive Burn It is the only option until Master ISO 2 errives later in the year

MekeCD supports every flavour of ISO gen eration you could possibly want Whether you want to make a simple CD

capy of your hard drive or multipletform ISO 9680 and Rockildge formats, it's up to the job. MekeCD elso has the facility to cut 'on the fly'. Instead of building the 'ISO image' onto a hard drive end then cutting from that I can build the ISO image and send it straight to the CD wirter thus seying hard dive space

Unfortunately, to put on the fly there ere a number of factors which affect success These are the speed of the Amica, speed of the drive, whether you are reading from a SCSI drive on the same interfece and whether there is a lot of small fries in the

The only safe way is to try first in Test mode but this involves hanging around for eslong as it takes to cut a CD to see if it will work for real in reality we recommend you don! count on this working instead making sure you have a large hard drive for storing the temporary ISO images

Make CD is a fentastic package but it is loaded with switches and settings which can be confusing Thoughtfully HiSaft heve provided a printed menual tether than the AmicaGuide only form as released on Aminet MekeCD still isn'j perfect however It's not as efficient as MasterISO and the package states a 68030 as one of the

requirements

With the Philips drive, every time I tried to abort a process, I found the peckage locked up and I needed to reboot. The MakeCD authors say this is due to the CD-Rignoring a SCSI command which seems to point top a sus-

pected firmware bug The MakeCD GUI is also rather large and convoluted Not a major consideration since when outting CD-Rs, the

underruns but I would have liked the mein GUI to have vanished at least

Conclusion

The Squirrel is the week link in this set-up, as end it also consumes significant CPU time DE davice which is also a CPU driven interface. No doubt this is why HiSoft don't offer the option of a more expensive 4 speed CD R deck

I'm impressed with the fact that the pack does work faultlessly on a standard 68030 equipped A1200 That said, cutting on-the-fly of small files to worte. We fined to copy a CD. MakeCDs copy function but this also failed

The Squirrel CD-R peckage works well enough for the majority of epplications. If making several changes to a lerge CD end well advised to consider a faster SCSI interface, parhaps an add-on to a trandoor accel-

auetor such as the Blizzard SCSI, then it should be possible to use a 4X CD-R and Most of us won't need this and will welcome the value for money that the Squittel

200 CD-R mechanism organise a large haid HiSoft CD-R bundle Mat Bettinson





A Here's Make CB's mars GUI shout its holid pay of CU Amina's cover CDs







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Here's the Sharp MD-MS280 pertable Minifies playerirecerifes. Bot only high tech stell but it looks great to boot.

Wa've looked at Philips' Digital Compact Cassette, now it's the turn of Minidisc with the latast Sharp model.

onsumer electronics has to be semething prefix special for us to cover Philips' dignal cassette was just that, stunning CD quality eudon in Hist Separates and portable player rhecorders elike. Sadly Philips' decided to pull eut el DCC and the format is distinct for the history books along side Betarnex.

pull eut el DCC and the format is destined for the history books along side Betarnex Those with DCC kit end a supply of tapes well no deubt use it far meny years yet but whatever kilded DCC had to be semething special it was, it was Mindse. Show's Mindse intrally fadiad to impress

Solvy a Ministest Initially leaded to Impless
The early units had two seteroidy regative features, they were very expersive and
the audio quality was clearly infence to DCC
and CD Since then a number of other maninfecturers have beened Ministes to make
their own units. This coupled with rising
popularly and better refemileally has forced
prices dewn. All that remained was the
audio quelify saue. That too has been
addressed.

Sharp is sharpar

The portable MD player accords reviewed here is the Sharp MD MS200, the mein competitor to Sony's popular MZ-R30 I spend a let ef time comparing the two units in HFR sheps and eventuelly concluded the same as web based research was saying, the Sharp has better quality suidio, better features and is much better value White's in like then?

Ferm the euter, the MSZ00 struck ne as the most Incredible piece of technology ('we witnessed yet.' The periable 200gr (that's tight) and teatures frent loading and comes with a 3 6V 1400mAh Linhum-lon bettery that weight less than a single AA white sporting many times more power. The Sharp will playback for an outrageous 9.6 hours at a realis.

Further reading

If you re interested in Minidisc and rinding the boat models and prices for you. There's two web sites you should

http://www.minidise.org

and if you want to buy the latest models at top rates

direct from Jepan, consider Nrc Boyde st.

http://www2.gol.com/users/boyde/MDpage.html

tic velume level and recerd for 7 heurs! An optional 6 x AA pack clips to the back. The list of features

and incates of the Sharp gession, the headphone remote carnes fw,back stop,play basis boost/track misert and digital up/down volume. The later is wellcome, no rotary centrols to break after a lewmenths. There's elso a socket on the head-

menths There's elso a socket on the headphene remote to use yeur OWN headphenes. Depent miles runits are provided. Alse contained are a fat manual 80 min disc and extrang pauch.

Editing functions

As with all Minidae units recording can be numbered labelled, edited, deleted misert ed joined and a plethor of either editing functions. The butten controls are very easy to use. The imputuality before are also very well thought out. The imput jack is a dual realegua/epitual digital in put, recording level can be adjusted on the filly and there is a very good beak hold LCD felvel man to adjust and the second procedules are second procedules.

The output jack drives headphenes and fine level output after The LCO display is a full domatrix alphanumenc job. Physically the unit is gergeous, light and robust. The recording quality is stunning, I recorded a variety of sources and the playback was.

unbelevable through headphones end jacked more i-HiP Mindisce themselves are farntes-tic, smaller than a floppy disk or even a CD single, the shutter can I be spened by accident and many MDs can fit in a pocket with the Sherp comfertably

Am I impressed? You bet This tiny mind-

cited technology has rendered my entire DDC HIFI deck end portable player esbale to MD prices are now cheaper than DDC tapes and the adding facilities are superful. It's great suppring tracks sat like a DD described. The microphone in even powers active milior phenes and unsurprisingly offers ace reproduction. I really can't recommend it anough They'll have to pry it from my cold dead.

fingers before they get it back M Met Bettinson



Audio compression

OCC was based on avaiant MHz-bauch layer I at 1928bis The original Minidises used Sony spropnetry ATRA standard. This was standard. This was standard at the was standard at the was standard at the ATRA or provided the same at the same

SHARP MD-MS200H

System Requirements

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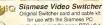
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OGIC Kingston-spon-Thames, Surrey KTS 6HH





Viper 520CD

■ Price: £99.95 (8Mb) ■ Supplier: Power Computing © 01234 851500 http://www.powerc.com

Time your old A500 was traded in for a new modal? Hang on, there's hope for the old dog yet in the shape of the Viper 520CD.

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Squeezing it all in

You're probably wondering where all of this fits into your A500. Believe it or not it's all housed internelly – not in the trapdoor slot, but on top of the motherboard.

If connects to the 88000 CPU socket on the motherboard All you do is take out the bulky 88000 and put this in its place it is a bit of a fiddly job but simple enough. There's just enough room inside the A500 s case to fit a slimiting 2.5 inch IDE haid drive onto the card. The remaining two IDE connectors are listed out through the left hand side of the



case A narrow slot should be out in side of the case where the top end bottom ports meet if you went the case to screw book together, eithough IDE cebling soft that thick, so you could get away with screwing the case together is little more loosely, than

usual if you'd rather not heck things about.
The IDE connections offer access to
cheap CD-ROM drives as well as herd drives
Adding extra drives to an A500 has never

Almost an A1200 Apart from the ASA graphics chip set, the

Apart from the AGA graphics chip sel, the 520CD has almost all you need to turn your

A500 in en A1200 Ok so the AGA ohip set is quite a major difference, especially as adding a grepnice card isn't an option. Aside from that though, this does give a tired old computer is big kick up the backside allowing it to run modern applications that require a hard drive, OS 3, a



helf decent CPU end a bit of RAM on the side. However this reises the obvious question of whether it's worth beefing up such an old machine in preference to just ditching it in favour of en A1200 If AGA isn't important to you and you don't envisage the need to add much more upgredes (elthough there s still the side excension slot) then this is indeed a nest and cost effective solution. For envone who has found themselves meropried with an outdeted computer and insufficient funds to get a shiny new one, this is an opportunity to get with the

program for relatively little outley. The difference in a stock A500 and one with a 52000 under the bonnet is redical. It turns a virtually useless box into a highly versatile and ettractive computer. What more do you want?

VIPER 520CD Developer: DCER Computer Service System Requirements:

handlation is asseptionary in just make some you've got the fill connection and the right may make in the production and the right may make you a production some in the production some in making year 1558 distinct years you can't had backgrown and lets move benefits.

R groot all-in-one opprade for the anciont

90

Optional extras

Keeping the drives end FPU as optional extres gives you the chence to configure your setup as you wish The FPU is a definitely worthwiths addition for amyone into 3D rendering, while the IDE connectors allow you to add veriously sized haid drives, Zip drives end CD-ROMs according to your regulements.

LS120 120Mb Floppy Drive

■ Price: LS12D £119.95 IDEfix £34.95 ■ Developer: 3M ■ Supplier: Eyetech © D1642 713 185

The LS120, also commonly known as the 'A; drive'. we've known about for some time but due to a lack of drivers it seemed to be a non starter.



package also contains drivers for the LS120 That serted, what's this LS120 about then?

The LS120 is a lloppy drive 'replacement' t.44Mb HD fleppy disks. Seunds gead deesn't it? The drive is the exact dimensrons of a standard Hoppy drive and the to a standard Boppy disk elblet with high tech optical medie inside and a snazży looking 3M case

Not floppy The LS120 does not plug into the floppy

interface It is an IDE device. It works fine with the Amiges IDE interfece with the IDEFix seftware. As standard, the LS t20 is mounted as DF4 and the drive lermatted perfectly with the Fast File System on the lirst ettempt it also has an electronic eject. rether than a physical mechanism

There are some problems though Firstly you can t read Armga draks. Since it s sync function of PC disk formats. The greatest downer however was the speed. Much write and 160K/s read it's nearly t0 times slower than an lomega Zip drive. It tekes an sternity te format and Idl the disks up

The access rate is so slow that the slow seek time as well deasn't make a lot of difference so AFS didn't speed things up a ornat deal

Less robust

The medre is an equivalent price per Mb to weuldn't leel cemfortable leaving them around uncovered unlike robust Zip disks

putting back in

them about the size of a Zip disk

writing PC HD drsks if you have a real need to do this with CrossDOS it operates at Iuli speed without the Paula bettleneck meking HD fleppies such a pain on the Amige It's also possible te format disks in the 1 44MB format but with Amige FFS so gaining a

Net really. The LS120 would be gorgeous if only it wasn't so damn slow and if enly a lot more people had them. The Zip drive on the other hand, cemes in IDE end SCSI varistres internal and external is cheaper end a hell of a lot fester There are also a let mere people who own them to swap made with So il speed isn't impertent to you, or you really want the extra spece per disk and the ability to read/write PC HD fleppy disks then the LS120 could be for you

It's unlikely envone would ht m this bracket on the Amiga aspecially since A1200 users can traplace their floopy drive with it It'll cost you on extra £35 for the software to use an LS120 or an IDE Zrp.

drive afthough you may have ATAPI software to drive a CD-ROM enyway IDEfix 97 remems the ultimete ATAPI CD ROMADE driver package and is

well worth the money but we recemmened you use it with a Zip drive

a standard floor insteed . Mat Bettinson

A Here's

the LS120 drive

which will fit in

draw bay of a

a tawar set-up

bly-box Amina or bu is the INC late

at little drive but way

New! The Eyetech Complete Guide to Towering your A1200

Do-it-yourself EZ-Tower kits: Mk 2 EZ-Tower assembly; Keyboards and keyboard adapters; High density floppies; 100MB+ cartridge drives; Multiple IDE/ATAPI devices; Zorro slots; High-res Graphics cards and scan doublers; PC-Pentium slave boards; Amiga-PC Networking & Integration; Port exp'n.

Do-It-Yourself EZ-Tower If you are confident about undertaking a small

amount of metalwark osing hand tools then this is your lowest cost route to a really professional A1200 Tower system - capable of all the other

espacsion opportunities onlined on this page. In build your D-1-Y EZ-Tower you will need to:

Parsons the bank panel of the supplied PC towarby drilling out the absolutions positivetal harmons a supplied of interest also long by making three shart backson Cold Tryn down a consession plate using metal sheers or a hypotane is promise a parameter of the Well A file hypotane used dislators may always redigne Well A file Plastan the custom basis paralle shock his place withing the sameway previously ded support over the RVVM. Clip the ARDPG prover sidegion on to both Will sealing any pass of places and the Section (Argumene type) cable.

Thats it! You've just saved yourself £29 for around 20 minutes work.

The Eyelech DIY EZ-Tower costs Just £99 95 Including all the components supplied with the ready-built Mk2 EZ-Tower

The DIV EZ-Tower is also available to non-UN ustomers without the PC tower FOR FXPORT ONLY at £49.95 ine VAT @ 17.5%

Floppy drive and backup options bear at related that your should ALW ALS from a bookship DFD

Looking for an all-in-one package? Why not treat yourself to the Evetech EZ-Tower Professional Pack?

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8-speed CDROW including the Eyelech 4-device buffered interface with fully registered EZ-IDE COROMhard drive/IDE Zip drive/LS120 driver BECKE Rappy drive including faceplate Fentastic software bundle including Wardwarth 4SE, Turbocaic 3.5, Datastore 1.1, Photogenica

1.2SE, Personal Paint 6 4, Organiser 1.1, Pinball Magus and Whitza Fully installed and tested together with all relevant

cables and manuals AND the aplion to have An LS120 720KB/1 44MB/120MB super floppy

e/cable installed in your machine for Just £99,95 extra (at time of purchase only)

such as the corners E20 redination on E2-Tower all lounghour artifacts Figure give result be terminated conductions on the right of this page before

The All-New Evetech EZ-TOWER This definitely one of the easiest solutions to building your own tower." Amigu Format - July 1997

"The Eyelech tower offers claves solutions with a Velero rasyfit memality" Cu Amiga - Oct 1997 with the draw beyond a stondard Is Couldn't be Easter! Persons the case top and keyboard ribbox cobis (No abhild recorns regalized) Shat in the ribbox cable from the stational PC/

and the single-

AUTO-MON adapter £33 95

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EZ-VGA adaplas

Mount saleting and new herd and hopey strives and COROM units in the keys raing the screws stern backgainer ish on the sewer/HD/FDD LED adaptes and the

8200 perent connector of bean the gater ease. That's it!

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The English Siz York companies on a PC SYCIA method elegisty 800 File models in giginness on a PC SYCIA method The English Siz Key PC keyboard stapper for the Ampa The AUTO-MON automatic mercrote severb to despity affirmities graphics card output including integrated Ampa screening for the graphics card output including integrated Ampa screening for the second several section agreement.

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of the Year 1996/







fitting either ...



...a standard PC motherboard and rards or



...a Zorro board and cards (as well as your A1200).

PScene

Game after gema... Steve Bye was happier than someone living downwind of a Prozac factory when we gave him these to review!



The World Of Magic

■ Type: Graphic edventure geme
■ Aveileble from: F1 Softwera 1 Lower
Mill Close, Goldthorpe, Rotherhem, S6398Y, Tel: 01709 888 127

■ Price: £4 98 plus 50p P&P
With a serious shortage of commercral
adventure games it is left up to the PD sector to feed the ever hungry hordes of edvan
turers out there so in that respect TWOM is
a welcome sorbt.

It is a 2 dak advanture geme created with GRec (The Graphic Advanture Creator) and the only bad gornt about a game created with GRec is the non-standard mouse operation, but you soon gat used to that You can install the gama to hard driva or boot it from floppy. Once up end running we have the usuel power and click panal at the bottom.

that of the screen and the play acrean above. The graphics shough alightly code in places are memby pleasant end certainly good enough fore a game with the pince tag. The game takes piece in the world of Kawamoon Where Deagna, Ceo, Goblins, Werewockes, Kings end end pnests roam. You alsy a young other place place foreing on the pince that the place of th

By manipulating objects and interacting with characters of which there are planty, you must solve your way around the game to as finel conclusion.

I must admit that I didn't have time to complicits all the game for this review so I cannot comment on the full depth of the game I did get stuck but as is usuel in this type of game if you have the time to try avary possible move me every possible location you will get these accept or later.

TWOM hes plenty of short enimations that catenity edd to the atmos but sound effects and humour are few and far between TWOM appears to be a fairly well rounded and professionally produced game, which is quite effecting nowadays. I have attempted a few GRac creations myself and I



cen tell you it is a lot of hard work and the authors should certainly be commended for 'sticking to the task' by producing a rice geme, even though I didn't! *** *

Splat 2 Type: Geme

 Ayelieble from: Clessrc Amige PD, 11
Deensgete, Redcliffe, Menchester M26-2SH, Tel: 0161 723 1638

■ Price: £1 plue 75p P&P per order

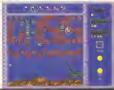
Here we have another Arkenoid clone, i.e. hit

a bouncing ball with a bat to knock out the bricks and clear the screen However, that twist that makes this game

recovered, that avers the tractice time general worthy of its piloce among all the other vermity of its piloce among all the other Arkannot clones as their instead of e bot we have a crisk, every lawyed to higher a crisk, every lawyed to higher a crisk, every lawyed to higher a crisk, every lawyed to have a crisk, every lawyed to have







channe

lom?

You can collect a bonus at any time by pressing the eahl mouse button Surprisingly this does make the gameplay slightly different because you find your etteniron keeps jumping off the bit and ball to the bonus meter in the hope of collecting

Looking at the graphics I think Split 2 must have been aimed at younger players ndiculously fast default ball speed. The graphics are crisp and clear and the sound effects are edequete. The full version, which

difficulty More then once I was stuck on a leval the screen, and with very limited control in drecting the ball it look ages to wipe him. with this type of game Splat 2 is OK it looks good and plays fine for a while but it sura won't win enviswards ***

Hotdog ■ Type: Deg-fight Game compilation # Aveilable from: Online PD 1. The Cloisters, Halsall Lane, Formby, Liverpool. L37-3PX. Tel: 01704 834 335

Price: 75p

released in 1990 but surprisingly still good

It took me 15 or so attempts just to learn ing plane crash animations were so amusing

Normally a game where each life lasts graphics or the great animations and sound

wast for it. Doe-floht V1.11 Which is graphics and some ground delances. The third game is Stoke Commender, much the same as other Dog Fight games except with a mish mash of dodgy graphics, good sound effects but swful gamepley

Last and very nearly least is Dog-fight Sim V1 5 which has some of the uphast graphics I have seen for ages, but it does offer some good features. The mem one

asking price for Dog-froht but the others are simply space fillers that you may squeeze desperate *** * *

KidSTOP V5.3

■ Type: Educational game

Available from: Aminet\game\misc\KidSTO Pihe for the demo and Brien Koetting 3043-B Oak Green Circle, Elicott City, Maryland 21043. USA for the full version. Price: \$25 will upgrede the demo version to

the full yersian

This 6.5 mag eors of a geme, sorry, 'entertain

with an animated menu, which will cartainly orab port in order to play the activities

Selecting the emport for example takes you to 1 matten my live year old son enjoyed this activity

At the top right hand corner of each activity screen is a "page lum" roon so the child can propress through the different screens at will To guit back to the main menu is just a simple fask

Other activities include a very good matching tiles gilma, colouring book, Mix and match a counting game, a musical keyboard. ABC-123 and



has 5 of the 12 activities deabled, to unlock the missing games you have to register

There are stocks of good and clear sound effects and the program couldn't be simpler to use. The enough for me, after all what do adults know







Tossword

■ Type: Word puzzle geme

M Aveilable from: Saddletramps PD, 1 Lower Mill Close, Goldthorpe, Rotherhem S63-9BY, Tel. 01709 888 127 ■ Price: 80p plus 50p P&P

1 or 2 human players must be their vocabulery genius against the Amiga with the eim placing words with Irah scenna letters on the board just like Scrabble

Tossword has its accentricates though. for example, any word you place that's not infor that word will not be allowed on the board for that game. Apparently this min

The problem with this is the liny dictionary, if doesn't recognise simple words pound' and 'fete so it will take a fair amount

of playing to build up a decent dictionary However There are options to import and edit dictionaires which could solve that probfem if you are that way inclined. Tossword

comes with three dictionanes. Russian, German and of course English, a lot of Jun if But what really struck me as odd or is it novel? Is that when the Amiga takes its turn

on the board it attempts to help you by place rng longish words in good positions as but give you few new opportunities as it would in Screbble, interesting. Tossword is fundamentally Scrabble with a few addard Iwists which I think most word puzzle fens will get enjoyment from or even get thorauahly immersed m

and fiddly controls were improved the game would be even more enjoyable *** *

Utilities

Steve Bye tries out some of the more useful exemples of public domain softwere, then gives you his honest opinion on their worth. Reed on...

AmiGlobe V0.993 ■ Type: World Atlas

- Available from: OnLina PD 1 The esters, Halsall Lane, Formby Liveragol L37 3PX Tel 01704 B34 335
- 8 Price: 75p

AmiGlobe is a world Atlas for your Amiga The program boots up with a flat plan mep of the world, to find out about a country or a region of a country you sust click on th end you can then zoom in or out of the map or click on 'infos' (SIC) for some detailed

information about the gountry including population, flag currency GNP, etc. By clicking

You can view the map of the world in four ways flat spherical, perspective and mercators (don't ask!) Clicking on the Element' give you longitude listitude, population and the name of the region. AmiGlobe has a faw problems hera for example, clicking on

**** Totally blinding **** Good Average **** **** Substandard

Oh dear



....

channel but is that really a good enough excuse? I am also concerned et the accura-

cy of some of the detal after all this version

was made in 1995 so unless you can find an updeted version you won't be able to rely on

the exchange rates population ligures end enything also that is likely to change It's a fascineting program that could be

Utility of the Month...

Cartoon Studio Type: Animation Editor

- Available from: 17 Bit 44 Cept rest, Welkden Manchester M28-3LE
- Prica: £1 plus 70p P&P

Ok, you've just created a nice enimation in DPeint Hmm, no sound, no fades and not runnable without a player this is where Cartoon Studio can help Certoon Studto Is an IEE enimation editor Loed in your anfedes sat the frame speed edd peuses self running disk for your masterpiece colours, but for most simple cartoon type enimations this should be adequate (say's

the authori The example cartoan included is



Price: £1 plus 75p P&P per order Even after ell these years ony new point program on the Amiga is immediately compared with DPaint fair or not that a the way it is, simply because DPaint is what most people

ara familiar with So any new program that goes too fer against the grain has to live or die on its liest. with people ere just going to junk it. The am getting at is MicroPaint (MP from now on) hasn't done itself any fevours. As a user I would have junked MP after 10 minutes sim ply because it alienetes you from the word give MP a fair hearing

Don't get me wrong I am not implying that all paint programs must be the same as DPaint but it is common sense to build on existing knowledge rather than start again each time MP has some similarities to OPent of course but it has gone its own way on a lot of unnecessary things, take the undo



on a function you have to re select the function to undo your last piece of work, surely a simple undo button or keystroke would have been better? Or how about text input?

Yuk you type the text into a requester or a different screen, porriless Of mhe plus side though MP supports all the usual look plus up to 256 calours (AGA Amgess) Intellifonts, colour fonts, print pictures grab screens supports del alypes pley armatons, has en Afexo port, has a recard. He list, cloboerd support, macros and some simple image manipulation look.

I think MP could be a useful artire along site of your usual plant package as it has some great feetures not found in many other smaller programs, but I doubt many people could put if I o serious use on its own though I am sure there will be some In this demo version you can only save in BMP format you have to register (15) for the keyfile I on nock.

Class HD Utils 23

- Typa: Utilities essertmen*

 Available from: Classic Amina PD 11
- Deansgale, Radcliffe Manchester M26-2SH Tel 0161 723 1638 Price: £1 plus 75p P8P per order

This compilation of small utilities contains some old, new end interesting programs CauckGrab AGA is an excellent screan

gatherian days an excellent screen gatherian problem. Diskmashe 2 is a ob. but slightly bugged, front end for DMS LHAQLZX autometically coverts LHA archives to the superior LZX formal System Uodate. If could be useful as it compares versions of wour system files with the latest version available end

updates them if you wish Holber displays a row of cons of your levourite programs on your Workseech so you cen launch them easily and quickly. Policen allows you to uso Parsonal Paint 6.3 + as an icon edit or, which is nice if you don't like any of the loon editest doing the round. Then are also five Workberch beck-

drops for WB3 users. How to AmlgaGuide is the star of this disk for me. It is a comprehensive guide on how to write AmigaGuide docu ments. The euthor wroto the guide as he was learning him self so it is not totally com



lew addities left to caver their will not wony most people. It is and well written and if you want to learn from scratch I heyen't seen a bell or guide around than this ***

Video Base V2.01

- Aldeo pase A
- Type: Database
 Available from: Online PD 1 The
 Costers Halself Line, Formby Liverpool
- 1 37 3PX Tel 0170

This progrem should be in an Arwiga museum somewhere its been knocking around the PD scene for yorks I removable giving it a good looking at yees ago and nothing appears to heve changed, but as the doc file claims to have been written in 1987 I clauss

something must have been done to it?

No naw features are listed in the docs or indeed apparent in the progrem. Oh well, I suppose I had better get on with it then. Video Base V2.1 allows you to easily catellinear your Video films collection.

You can add, edit delete, view, sort, seatch and print records as well as edd a lengthy per sonal record to each trap. The front and is as ugly as a Tory MP and the program written in Amos 17 a end not in Amos Po as suggested by the programmer.

So if you want to look at some Amos source code or you want to catalogue your video collection and you erron't too fussod about looks stylo and features plus old times will do you nicely ** - -





Best of Aminet

This has been a pretty good month on the Aminet uploads front. If the amount of uploads to the Aminat in any givan month is a good indication of the health of the Amiga scene in general, then I very well indeed! The star upload of recent days has not to be util/wb/Newlcons41 lhe (655K) and util/wb/Newlcons41upd lha (115k), the latest version of the Newlcons icon replacement utility Rating as some of the bast freeware avail this icon replacement system preserves the palettes of Icons separately, avoiding the dreaded palette clesh that MegicWB icons suffar from. At CU we rete this as the beet icon replacement system going.

On the utilities front there were a fair batch of wand and wonderful thing this month, misc/amu/MidiShape lha (134k) is a bonus for the audiophile Shapashiftar, allowing MIDI output from Mac peckages via Shapashiftai. I woi day what decant MIDI XG software there is for the Mec? On a slightly more unusuel side is ofx/adit/write it the (5k). This is about as simple as programs get, but I love it it opens a window on the Workbench screen and ellows you to doodle in it with the mouse. You cen play beck the mouse movements quickly or slowly and save your deta, I'm not 100% sure what it is actually for, but los an unrapentent doodler such as myself, it seves no end of scraps of paper Tha would is full of little Workhanch hecks. but law era as immadrately and obviouely usaful as util/wb/PowarWB lha (66k), a simple and opparently fairly cleen hack which adde two gadgats to any windowe you opan, one to show all cons and the other to ewitch between view by name and view by icon. That a ara also e bunch of axtre keyboard shortcuts patched in. This is one which

will meke it onto my system
Regular radiats of this colomn know
like the Aminet to keep me amused
too, so before I sign off for another
month I'd bette point you in the disction of pix/trace/WhyYouSoLook Re, a
bizers but rather excellent montegs by
Bartosz Madjaer.



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CD-ROM Scene

We're doing a games special this month, rounding up a bunch of new and "nearly new" CD32 games available from Epic Marketing...



For the princely sum of £2.99 each (plus £1 per title postage end packing) you can purchase any one of these games - plus they I even throw one in free for every four

Their are a whole load more games than

these, so get in contact with them if you these worked fine when we tested them under IDFfix 97 software

Using CD32 emulatron under IDEFix97 small utility will prepere a boot floppy for you Stick the CD-ROM in the CD dive and the boot lioppy in the floppy drive and boot up The game loads as if on a CD32 Great. buh? There is of course one other important issue to take into consideration, which is that - compared to Gloom is that the alrens in this

The easy answer is to buy one of these you to emulate the controls through keys Some games are ok this way, others are a we have rated the importance of a genume CD32 controller to retaining playability

John Bernet European Football ■ Joyped?: Necessary

I know someone who once played footre with John Bernes in the local park, and has ever since worshipped the very ground upon which this ex England, ex Liverpool midfield legend of dubious dress sense walks

Perhaps to him there might be some to the hero of his youth. To everyone else, my advice is to steer well clear Ok, it works,

There is little doubt (desprte what the edi-Soccer is to this day the King of Footbell garnes, so any other trie has to have at least away the time if you are feeling a little bored

Total Football, Football Glory, Krck Off 2, Dmo Dmr's goal thase games all had something worthwhite to offer in their own way something to make you turn to them from This on the other hand has nothing

Barnsey is currently achieving moderate suced. This game should never heve been given a revive 20%

III Feart

■ Joypad7: unneccessry

Fears was one of the first of the Amiga s "Doom clones" Released around the same time as Gloom, this one was rather overshadowed by the gorey violence of the latter Looking at this game now, I can't help but

look absurdly certoony compared to Gloom It can't that the Action man figures in Gloom were so utterly bollrent at a just that the monsters in Fears are too comitted to be anywhere near scery

scary mideed. There are excellent textures. and suitabley gloomy music. The whole thing trundles along at quite a reasonable rete This is very definitely one of those games where playing on an accelerator makes a big. bio difference. Give it a reasonable CPU and this game lites, full screen

A 68030/50 is all you need to get the most out of this engine while on a CD32 you had to reduce the screen size to make it remotely playable





Although this type of game tends to be Immoed together under the category of Wolfenstern 3D clone

You can only look from side to side it is basically a run through a maze shooting things type of game, and as a blaster it is actually guite good fun. It's very simplistic but also very cheap. Well worth a look if yo like giving cartoon octopr both burrels 85%

Strip Pot

■ Joyped?: Oh stop snragenngt Not

This is the notion, You press a button and the reels spin

It's just like a fruit machine but if you get a line you also get to see a badly digresed photo of a nude or seml nude model. After a while, you see an animation of a semi nude model, apparently,

Come on, if you really have to then the top shelf of your local newsagent at least offers hetter photographic reproduction. Cheep tasteless and frankly very sad 2%

■ Legenda

■ Joyped7: Not necessary

Legends launched itself into obscurity a couple of years ago despite being something of a ranty on the Amigs. Set over four time penods Legends is an RPG in the Zelda style



There is a complex storyline, full of charac-Graphically it is objected and reminiscent of

the Brimap brothers curtoony style of art. There is plenty to see and do and a lot of the same time as being involving and men ages to be challenging without being loo frustriitmo. So what went wrong? It didn't get launched at the best time for Amrga gemes and it certainly offers very little that

The ideas behind the game perhaps outweigh the execution, but for the RPG funslarved of fodder that is a small mailler I m sure this one that should keep you going a far white 85%

■ Total Carnege

■ Joyped7: Unnacessary

Spare me. Whoever wrolleth's geme was clearly of the opinion that just so long as you drew blokes with big muscles and there are didn't have to bother about minor things such as style, gameplay and so on,

This is one of those top-down-run-eroundkilling things games that really took off with that classic of the arcades Gauntlet and went downhill from there Total Carnage sees you Taking on the role of a Ramboesque charac-Let, either on your own or in the company of your own lttle Rambmi ardekrck to be controlled by some friend, if you can find one

You are regularly assaulted by hordes of lookalike Schwarzenegger baddies who march birndly into your line of fire and can prok up the odd weapon, key, or diamond





Game of the Month

■ Guardian

III Joyoud?: Advisable

Guerdran was clearly armed at being defender in 3D, even down to the name There aren't little people to defend

the screen for a lander to get almost far enough to transform into a mutant before you blast him, grab the little guy and deposit him on the ground for a 500 point bonus Nevertheless, in Leims of sheet frenetic gameplay, Guardian has successfully Lapped mto the Defender ethos You are probably all bored to tears with

geme reviewers going on about how great ara very few 15 year old games that you could happily fire up for a quick zap Trapped2 Quake or Tomb Reside but Defender is definitely one of them. That

Defender when it came

up is testament indeed to its gemeplay

by lodey's slandards, but the copper list horizons, adrenein pumping actron and beautifully fast screen updates make this eone I am sure I will still have the odd blast at in 10 years time 90%



you find lymo about.

Every now and again a large tenk or whatever eppears, but as the fmng patterns all appear to be predetermmed they are not really a problem, you can just stand at a spot where they don't shoot and finish tham off In fect the best advantage the enemy

have is that because the screen only munages to scroll when it wents to, they can sometimes treo you against the edge of the screen Total Rubbish more like 38%

■ Vital Light ■ Jovpad7: Uselul

I'm not even going to try to explain the numelive here, d's fer loo wend. Something to do with a city called Ramron, which is a city of

mystery, mervels and video games

This is one of those Tetres mapired games that are still being churned out Inday It is morass of other gemes ellempling to do a Telns, and in the case of Vital Light that is a priv because it deserves beller

felling. They are in different colours. You have to shoot them to make them the same colour I am sure you know the basic principle by now. There are plenty of options and two player head to-head mode

The setting graphics and sound are evocatively and distinctively wend, end the of the very best of the pseudo Tetris genre and very well worth a look 88%



Art Gallery

Send pictures to: Art Gallery, CU Amiga, 37-39 Millharbour, Isle of Dogs, London E14 9TZ or E-mail them to artgal@cu-amiga.co.uk.



The background is Viste, the peinting Photogenice, the modelling Imagine, the inspiretion Magritte. The contrast between the 3D rendered figure and the peinterly 2D canvee edds a level of irony Rene Megritte just didn't heve the technology for.



Wa are more used to eceing Lee do cartoony renders than this moody realist Cineme 40 piece. The strong central composition and high contrast is reminiscent of the modernist photographers. If Wastern hed en Amige, he'd do renders like this



A suitebly lunetic piece of computer college. The colours are well eelected end the imagery appropriately used. An appropriate nick name Phil



Petrick (not the estronomer) uses Imagine 3 for the renders and photogenics to touch up. This reminds me of a dusty museum corridor, redolent of mystery. An excellent sense of place

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From coding tips to desktop publishing. our regular Workshop section continues to instruct you in an expert fashion.

Sure to keep you busy for some time.

Imagine 4.0

The penultimete lesson in the Imagine series John Kennedy shows how to edd people to your rendered scenes.

88 C Programming

Jeson Hulence gives ewey a few more mouthwatering tips to help you to program with ease

92 Surf's Up

Cor blimey, even more Amige Internet exclusives to feest your ayas on plue the feerful Net God speaks

Surf of the Month This month we link up with the Freeware Round up (page 32) to give

you all the associated home nages.

Wired World Net bloke Nail Bothwick talls you all about Thor 2.5, the excellent

combined meil and newsreader. 96 Sound Lab

Mora wiedom from Dhomas Trenn on how to use an Image processor to add crazy effects to your audio samples.

98 DTP

Up to part 8 now in this ProPage tutorial, and this month Larry Hickmott tells you how to incorporate DrawStudio Lite with it.

Q & A

Seeking some much needed essentence on Arniga related topics, hara our experts do their utmost to give enewers.

107 A to Z

From Amige to Zorro, and quite literally every-flipping-thing in between. This month it's the turn of C. .





Back Issues

Missed an issue of CU Amige? Shame! Hopefully all is not lost and you can find the offend no item right here.

Backchat Criticism, comments, general information, suggestions. This is where you can see your

Subscriptions Life is just great when you take out subscribtion to CU Amigs, the UK's best selling Amaga

112 Points of View soep boxes at the ready, CU Amiges staff and contributors let it be known what

lmagine 4.0

Taking your rendering to the next level involves putting real people into your work. John Kennedy cen't find any real people, and so uses himself insteed.

ration of brushmens we can now develop a technique to add realistic people to your virtual slage,

To start with, well need some your inganuity and budget come into play II you are only dasting with a still image, then a single scanned image will do However, if you are then you'll obviously need more than

Imm video is one cotion, as is using

a great dest we cen do about that going cheep You'll still need a video source, but most people have a ref

of the person does not change from

head" unimotion form certain staps for each



The first step is to make a mask Using any mega, trace ground the

Now paint over the detail inside This will be our mask image. Sava it

Step 2

Using the mask, we can create an Imagine object onto which to map



A filter the provipions, and it's clearly skyleus that your "propie" are flat and idelens. It's a neal tittle effect though.

all the fremes of our animatron. In Imagine's Detail Editor There is When you load the mask maga using this tool. Imagine will construct an object of the same shape

cause Image to barf, but you cen sometimes ignore the errors end Use "Merge" on the object to solid-

Step 3

Now we can apply our brush map Forgat about animation for the the mask object

Add a brushmap texture, and select the first image that's in the should be all IFF format magus, named as "head 0001", "head 0002" and so on and so forth

Enter the filename "head" as the first mage, and set the Max head images.





Step 4

Imagine object and the brushmep image won't be perfectly matched and you will need to move (and pos-

nght. Use the Edit Axes button to after the size and position of the

with a match, and when rendered you should see the head image with

Step 5

Now you can save the object, and use it in the Stage Editor

on, and you are ready to render it's probably a good idea to make the head object bright, as this will mean

is included in the original brushmed

Step 6

One render later, and you have a realistic (well, sort of) object to add interest to your scenes.

Why not combine it with your other objects, so that your cers have drivers and your spaceships pllots? Because we have created an object of the right size, rether than pasted an image onto a rectangle, even the

Tips and tricks

der properly when we include it m



A Oh my year hand... all neverbly with Imperce's suncial effects

an animation. However, sometimes you might went more control over the speed at which the fremes

Instead of creating one object each. You can then use impoint s

Unfortunately it also has waird

consequences apply it to two fremas of a person blinking, and it appears that their evelrds turn trans-

perenti Animation limitations

Using a flet object like this in animatron takes care

will betray its two dimensional nature. Sometimes you Il want this will be herd work defining your

objects so that they always face the

Visit the Action editor end pley with the Alignment tool, and you might find this makes the tesk to create a solid, 3D talking head then you have a lot of work in front

of you. Creating the mesh for the head is a real chellenge in itself, although the example Beethoven bust which came with many versions of Imagine makes a good starting point







As for mapping e picture onto the 3D surface well again you have problems

You really need the equivelent of a map of the person's face, not a front-on photograph if you aren't equesimish, Imagine unwrapping their lace and pleong in on a photocopier – that's the kind of image map you need.

You could approximate it by photographing your model from many different angles. You could then out out the central stop in each photograph and use that as the basis of

the texture

It would be time consuming and
a labonous process – so I am curientify trying to work out a way of
automating it, and I'll let you know
how here on

Effects

CK, admit it You're all sick people if know it you know it. You want to epply special effects to the head object don't you?

Like any other imagine object, you can apply the determation tools or the special enimation effects to warp and shatter the object in

Of course that was one of the examples of how you can meniou lete the object using Imagine's effects. The explosion and other effects are eattle disappointing as the original head object is not constructed from a regular mesh of

This is due to the way the Convert IFF tool works, so there is little we can do about it, it is made worse because the brushmap does not appear to change with the object which looks more than just e little odd.

That s not to say it's not worth experimenting of course, and thanks to imagine s powerful deformation tools you can create all kinds of

special effects
You can even use a genlock and
edd them to your home moves
ean't; about time Auntie Beryl is
attacked by a flying saucer and con-

fully rendered deathray?

Just as we promised you, this month on the CUCD coverdiek you will find a sequence of still images that you can use as your bankdood.

th coverdisk.

A frame from the moving cloud convents, so we're supplied so this receiv's CUCO coverdist.

The sequence consists of moving clouds, stored in a resolution of 320 by 256. With just a little luck you should be able to use them directly from the CD without having

your hard disk.
This would make them absolutely ideal for use as Global Brushmeps
for exemple, which will provide a
wonderful reflection in the wind
screen of the car that you have rendered.

John Kennedy

Next month

Well N's been greet fur playing around with this progens, but unfortunately ell goed things must oome to en end end not mouth it's going to be the lest in the series of imagine tutories. In the secon well be taking a goed look at planning, designing end endeling a ehort film toom beginning to end Don't miss int.



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Amiga C Programming



Windows, windows, windows and guess what... some more windows. This month it's all about handling multiple, dynamic windows.

his month we're going to closer to a real peint profew changes to the last exemple of the previous fulgited, the most important of which is the separation of the drawing area and the view and the drawing tools in anothto add a second window but the

a huge problem end, in fact, the code is just what you should expect by now The really big changes are be used because we have to wall window. To do this we must delve a little deeper into the Amiga's massage signelling mechanism

Pass the Port

As ever, the complete examples are on the coverdisks, and we'll exemsuch snippet is the replacement for the "WeitPort()" from the earlier examples (see the outline in Example 1, teken from

Instead of walling for a message

Message Port

A queue (or liet) of masseges, held in first-in, first-out (FIFO) order. When messages errive at e message port (ie, when e prociam or part of the Operating System edds messages to the queue), e signal le set, which usually wakes up another program that is weiting to hendle the messages.

operator, "<") We then use with "Waitt" This will make the program go to sleep until one (or set, end when this hepreturn with a mask that were set. The resulting mask is stored in "got our windows (and the '8'To decide which that need to be hendled (see the outline in Exemple 2)

Strictly speaking it's not really indicates a port s signel has been set before Irving to get messages from it, since 'GetMsgl)' will return "NULL" if there ere no messages Bul, signals cen be used for more Then just message ports (Control-C serves as a good template for the

general case we've seen before, eithough it has now been separated into the two parts that relate to each window

No Front Fars

change we'll make the drawing screen by removing the borders end "WFLG BORDERLESS") and make it sit permenently at the back. ("WELG BACKDROP") You pught to



be pretty femilier with e window that can swap between the two types Workbench menu)

One benefit of using a borderiess window is that we no longer need to worry about setting up a clipping

whole of the window). And if there's no clipping region to set, there is no opened. So we can Inm down the code a little

The new second window will be kept as an ordinary bordered wiredow to hold our gadgets. We II also add a long-awarted title, both to the window (using the "WA. Title" tais) The next bit is then to do some (no

Example 1

ULONG drawning, toolsing, gotsing, drawsig = 1 < drawwin->UssrFort->sp_Signit;

tooisig = 1 < tooiwin->UmerPort->mp_Sighit; while (going)

/* Wait for meanages to errive */ gotsig = Weit|draweig | tooisig);

/* Rest of code ... */

Example 2

very devert maths to make the tool window open right in the bottom of the screen (see Example 3). Notice that, se is small optimisation, we remember the still between the rest between the right paged creation code in fortion, which we have now made into eighber vanable.

So what happens to that menu strip that we created last month? Well, it can sefely be ettached to both windows so that is what we have done. The manu strip is

edventage in the next exemple. For now, if just means I had both windows will have the same menus, and so must both handle the "IDCMP_MENUPICK" messege (end

want to confuse the poor user!)
Try out the new example to get at feet for the way the perts are now working. You can move the tool window around to paint underneath at, but list the momen! The screen title has extens owen the trool of the

Example 3

Example 4

```
int createAll()
{
return openLibs() ## openfor() &&
creataMemaHris() to # creataGadgets() &&
openColVis() && openforeWin();
}

vold freeAll()
{
closeDrewWin();
}
```

```
clossToolWin();
frseGedgsts();
frseHenuStrip();
clossScr();
clossLibs();
```

Dynamic Windows

In the first everifier the close gaderi on the look undow quast the program and there is no way to get a complete unobstanced view of the program and there is no way to get a complete when the program and the program and pile. Including the program and addie in every ment to jurn offit he look window and the screen site both the program is soft the program and closing the window while the program is all maning land the other viewdow's open't we need to lact or out that code for opening and closing in the window. A sayle surrain to the would work if we write to keep a record of the important resources (such es in the viewer of the program is also (such es in the violette of program is also (such es in the violette of program is also (such es in the violette of program is also such or the surrain the program is also such as the violette of program is a surrain to the violette of the program is a surrain to the such as the violette of program is a surrain to the such as the violette of program is a surrain to the surrain the program is a surrain to the surrain to the surrain the program is a surrain to the surrain the surrain to the surrain th

In this case using some global variables seems to be a reasonable trade off, end it is quite interesting to see how this style can be epideral all of the resource efficienting code (in fact, this will elso eneble us to do things like dynamically changing the screen, but well laws this for the screen, but well laws this for the screen, but well laws this for the screen, but well as the screen is the scanning of the differences in the scanning of the differences in the scanning or the differences in the scanning or what has a second or the screen of the screen of the screen of the scanning of the screen of the screen of the screen of the scanning of the screen of the scanning of the screen of the scanning of th

able to change their values, and this

can make if harder to debug your

The most interesting new part of the restructuring is initialisation and cleaning code (see Example 4). The boolean AND operator, '86' used in CreateABI) will short-cut which means that the functions will be called in Linu must one of them resturins 'FALSE'. In other words, 'CreateABII, will resum 'FALSE' as soon as the first function relutins 'CreateABII, with control of the co

Signal Mask

The general algoral weating function, "Weit]", can well for a number of agnets at once These algorals are specified to "Weit]" in a signel mask, where such algoral in na signel mask, where such algoral in the interest because a member of signels can be set concurrently, "Weit]" reports the relevent algorals are news, too.

Message

A small peckage of deterthet cen be passed between applications. As we've siready seen, the Amige's intuition system uses messages to reform a window of things like gadget presses and mouse clicks.

"TRUE" if all of them return "TRUE" So, for example, the program will not try to open the tool window if the screen could not be opened.

On the other hand, the "treaPilling function paid deallocal as every function paid deallocal as every function by function in the proposite order, where each deallocate institution and state (if each the appropriate variables to "NULL" after doing the de ellocation as that the deallocation cannot be performed a second time even if this function is called enter engineering the paid of the ellocation cannot be performed as econd time even if this function is called enter engineering that the ellocation cannot be performed.

Czech Marx

The temaning point of interest is the new Tool menu. This condains two check-merk, toggla dams. Screen Ber and Tool Bar Initially. both har chacked, smace the screen trile bar and the tool window will both be active at If lest. The menu message handling code has been extended to deal with those messages and mitting case was are miting.

Example 5

```
cese 2r /* Tools manu */
switch(itembauber)
switch(itembauber)
finess 5r /* Berm has */
show/tis|sor, item->/isps @ CHECKEU);
break;
ones 1r /* Tool Mar */
/* set stets To indicate whether the tool window
should he open */
the tool (item->lags @ CHECKEU);
break;
(item->lags @ CHECKEU);
break;
```

value from the "Flegs" element

menu stop with each window the states of the checked items are sheled, which does save us a fall

The "ShowTitle()" function turns a use another global vanable to record the user's request to close (or open) the tool window (see Example 5)

Part of the heart of the Amige's multi-tesking mechanism A signel is besidely a fleg that can be set or cleared. A program can go to 'sleep' and welt for a signal to be set (using "WertPort()" or, more generally, "Welt()"). This frees up the CPU to do something also while the program is steeping. When the signer becomes set (by some other program or the Operating System), the weiting program is woken up (i.e. the "WertPort()" or "Welt()" returns) and the signal can be acted on

We can't simply close replied to the message IDCMP So, we must go

open) request and deal

ing with it lates once all

the IDCMP messages have been hendled Another complication the close gadget of the program so the munu

mark from the Tool Sai item (to keep it consistent). The IDCMP CLOSEWINDOW" code must therefore ramove the menu strip from both of the windows update it and then re-attach it. change we've made to the menu eny failures at this point. One failure we must cope with, is not being



... and without them

able to fulfill a request to open the ton) window. This is checked by the code that handles these requests, message handling loop. Fairly arbitranly, the program is quit lby set window cannot be opened again

Thanks for the Fish This month we've covered complicated stull, but we've now got a decent framework It's easy to see how it might be extended to a real ceint progrem, but the concepts also apply to many kinds of proabout the soplication you want to create, and start trying things out

look at some useful libraries! Jason Hulsince

Next Month

Open Your Mind!

with Andy McInery of Dex & Jonesey

Master of the banging house brigade, Andy McInery of Dax & Jonassy supplies a totally exclusive track for our CD and takes us through the process of remixing a classic tranca tuns for a major re-release, divulging tricks, techniques and sacrets along the way. Essential reading for all musicians and music lovers.

Cologne Show News

The biggest Amige show in the world, and this year it will be bigger and better than aver. With conferences sponsored by Geteway 2000, and major product leunches from dozans of Amige companies, this will be the most exciting show In years. If you can't be thera than do the next bast thing and read our in

depth report.



Haunted

We've been promised a good look at this giant multi CD advanture game from Alive madia Software. Featuring some of the most impressive randered graphics seen on the Amiga, this long aweited game is hare at last. Prepare to be scared.

Back ssues

Looking for a specific Amiga article, game review, program, feature,

tutorial, or even news story? Your search could well be over...















- Chapper (E Sterling)

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Net God speaks Stating the obvious, a great strength of the Amiga has always been the sense of community. It's impressive to see the blas tek Amiga in comms has taken towards community based efforts. Firstly how can one not be dead impressed with Amiga users cracking the top 10 in RCS stats? Hundreds of Amiga users bending hundrads of computers to the greater task of cracking the secret key in the Bovine

Our news this month also includes the expansion of the Amiga specific IRC network, Amiganet, which is going strong, Via Amiganet Amiga users the world over get together and talk about tila, the Amiga and Everything without fare of invasion by troublemakers from other platforms.

platforms. So it's timely that the uttimate community aid, Minabile' ICO system, looks set to burst onto the Amiga. Now you'll know when your Anipa buddles are online, you can ask them what they're up to, chart and sowp files with heart of the work chart and sowp files with they confine, to check! they're online. It may have started on the PC but ICO, seems designed for the Amiga community, Group hus (im. 3).

Surf's Up!

All the letest Amiga Internet exclusives for you including news of a possible ICQ port to the Amiga. ICQ? Read on.

Amiganet shuffle

Amrganet is a new IRC network which is run specifically for Amrga The result is that it tends to net-split less often than the big

networks like IRCnet and EFnet
The UK Amrganet server rised to
be ire pureamiga on uk but this has
sinced movad to another network
The correct Amiganet servar is now
stayfree uk amiganet org

Haru's a complete list of Amiganet servers, which are all operating on port 6687 with the main channel being called #Amiga

*thula.no.amiganat.org (Norway)
*whiterose.iss amiganat.org (USA)
*kth.sa.amiganet.org (Swadan)
*fastlana au.amiganat.org (AU)
*linux us amiganat org (USA)
*stayfree uk.amiganet.org (UK)

ICQ Amiga port

ICQ from Mrebils, is a multiplatform real-time contect, that and message based system.

It already boasts millions of users and the sarvice itself is free at the current time ICQ runs when your internet connection is active and reports on the status of other

The primary contact for this team is

37471 III IRaya/SRC

a were chatted yesterfor rate of several Hayarsac while Shaw ma mo at

select ICQ users as to whether they're online at the same time or not. Masseges and/or fries can be sent instantly or via the Mirabria server. It is possible to display your status and message via a web page.

ICO gets the thumbs up from CU Amige and the good news is that an Amige port is on the cards. Drop

http://www.memedia.com.au/amlgaioq and fill it out to express your

Amiga RC5 effort cracks top 10

The Amiga RC5 cracking effort under the Boyma collective benner has rocketed up the charts to go crashing into the top 10 as we wer

to press
This is an extreordmary effort by Iterally thousands of Amigni users who have access to serious compriling power be they Amigas or not Current rate of cracking is in the

That equates to an equivalent computing power of 600 50MHz 88080 machines working on the problem day and pight.

If you would like to viaw the current statistics

http://rc5 distributed e et or join in the RC5 cracking effort yourself by going to http://www.cist ron.nl/~ttavoly/rc5/

Sun takes Microsoft to court over Java

of firing against.
Microsoft citing a
breach of contract end
vanous other allegation
in their legal action.
The suit contends,
"Rather then comply
with its contractual
obligations the defen-



dent Microsoft has instead emboration or deliberate course of conduct man etternight to fragment the standardised application programming environment stabilished by the Jees technology, to bright by the Jees technology, to bright Jees programming environment, and complement the Jees technology in a manner celoulated to clause soft ware developers to create programs that will operate only on pletforms that use Microsoft's WinG2-based

other systems platform or browser'
This piece of Information hes armounded at a time when Jeva remains in development for the Amiga browsers via Haage and Partner's Merspi project.

Mat Bettinson



Surf of the Month

ugh Sadly there's no

Stephene Tavenard (someone

should volunteer to make one?) but

You can obtain the letest Estarware on his home page. YAM does

rether better on the web with the

home once being crammed to the

This month we chese down the home pages for each of the progrems in the Freeware Roundup (page 32).

web for how sad they are One chep excitedly repeat Entertainment's site had exclusive news of Tomb Ralder on the Amiga

Checking it out, it's your typical unsubstantiated rumour fodder, a authors can't even figure out how to make a link to Click Boom let elona themselves

devoted to Amiga users, their web site aprinkles PC only Jevascript works enywey and pleasantly I

convoluted and graphics heavy



A Click Boom's Asymptotist Indon situ Factorately it waste coyway





A The case study of the perfect support site. This time it's YAM — Yet Another Mailtre

tured with currency conversion but ing the interretional shipping costs

In thame from our Freeware check out how many of them had web pages. First the New Icons can

This is an excellent demo of what the icon set looks like and has

of the everlable icon sets. It uses PNG images throughout sq a detatype or Voyager-NG will be needed to view them MCP elso has Design home page

Unfortunately there's not a lot to

such forth so it's a bit under utilised. A Block acrosas and randered leges are in vapus This time the MCP beme onen CONTRACTOR DESCRIPTION AND PERSONS ASSESSMENT AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDR make (hitspir/25-limitide, storch comiditional outprior) many control [2][2 Latest Reznor Entertainment Ainiga Magazine 4/10/97 Ami-Tomb Raider*

A What's the latmost good for if it isn't youl old occabatantiated russours. For just such fabricutines and falcohoods, the Recoor Entertmoment eits can't be bust

URI's http://friesian.steeds.co http://www.clickboom.com http://www.amiganst.org/R http://www.cs.tudssign.html

gills with support files The site is exceptionally well designed and you can find full details about YAM, a FAO, screenshots, a file erchive and more YAM certainly does seam to look like it is the best supported E-mell client in

There's elso sketchy details on the upcoming YAM 2 0 due around Christmas time . Mat Bettinson

notice Esting / Anna palumet org/Newlectors/ Yes, Newtoons Version 4 is finally available! About Newlcons Team Newlcons What's in Version 4? Example Screenshots

والوالو الأراف المساور والمساور والمساو

A The New Icans 4 hours page is etiractive, well designed out has a persecupie of deventuals

Sugartin Params

Download Newleons

Wired Work

Thor 2.5, the best mail and news reader just got better. Powerful though it is, many people find it daunting at first. Hopefully, things will become e lot clearer in the next couple of pages.

tor is a combined mail and news reader intended for BBS systems. Thor uses a hierarchy ol systems and conferences. A sys. tem is used for a particular type of message so you would have one mailing list or general E-mail folder

Within this setup, almost every thing is configurable, but most initial use. It is this level of configura-

Installation and setup The first thing to do is install Thor

Id/Thor You cannot install direct band dove for RAM 1

The instellation process is fairly configuration of Ther to work with your ISP and account. When asked modulas answer Yes and choose the TCP and UUCP modules to install. Select Yes when asked if you want to configure your TCP informstion. If you use SMTP mail (such as with Demon) you should choose III Mail Tre the deventored directory

Now choose a name for your Internet system It can be called whatever you like but the default of unless you want to use multiple systems for multiple ISPs. The installer will now start Thor's TCP configuration program, to sllow you your ISP This has four pages. selected by tabs



A. Using the name browner.

Where to get Thor...

if you don't have the CD, you can get the files from the comm/thor directory of Aminal The ones you need are

thor25 main. lha-this contains Thor itself thor25_inst.lhs-ths internet modules

thor25 areas. The extra areas scripts for Thor-recommended Also available is thor 25_bbs. The, which contains the modules for BBS. Fidonet, atc. The 25 in the filenames represents the current var-

sion, 2.5, this may have changed by the time you read this Unare the main archive and copy the just and arexx archives into the Thor directory I his creal as.

real name on the first page, the piler items may be ignored for now The second page contains the sellings for your E-mail account If

the address used for kending mail

you needs I enter a login name. Thor

Most peoble find default settings on expanment with the number of sack ets used for news collection (to see later) Chaque the site best for you downloads should be saved in Binally, click on Save Orice the

Instellation is complete start Thor First time you'll get a warning shoul the Global configuration click OK Then Global and Then asve Now close the configuration window, and select your system. Click on next and you'll see an introductory message



A ClaSortHad randy to personatically not up a mail porting trigger

Useful utilities

There are some useful utility pregrams in the Extras directory on the CD, these are also evaluable from the committee directory of Aminet. AminetPorse: Fast adding of Aminet INDEX and RECENT files. MLManager: Automatic subscribing to meiling lists, sending a

SertMeil tilgger at the same time.

NewsGroupEd: Extra features for meneging a newsgroup list.

Using Thor

lood your ISP's full newsgroup lest You don't need Thoi running when you go online as you can either quit or loonly it now. All Internet online actions are handled from a separate progrem, ConnecTHOR, start this up and

The first four buttons are selfexplanatory, Config TCP starts up the configuration program you used to set the server information during matallation and Browse Nows fires up the online newsptoup browser

you'll see the messages you've just downloaded. The first thing you'll want to do is sel That up to suit your way of working There ate three main windows used when reading messages open the Conflist and Msollst from the Windows menu. If you use a 640x256 screen you'll find things a bit cremped, so it's best to only open these when needed, otherwise, position the three windows how you like Now select the Configuration/Visual Outson-menu stem, the Save Globa hutton saves the position and status of every window, so you can ensure closed windows open wherever you went them to While you're here.

tish on Colour quote, Double Quote Style Tegs. You can also sell how That highlights URLs and the action teken when you click on one

Wail sorting

Because of the very floor treats is med and everyone smallers, if is easy to treat meaning lists in the same way as energy our Finer are powerful sorting procedures applied to all mail est is imported you consetup to juggest for each mailing list with the Affects carpet in the control of the mailing list. Offscorthal thou Make aute emeasurement of the meaning list is displayed in the mean window, start our Chigsorthal thou and effect Auto.

ETD

FTP
The idea of building FTP into a mail and news programt rays seem a little strange of first but it fuller out to be extremely useful. If you import the Agninel Index into Thor's file database, you can subscribe to the Agniner melting list and new files can be automatically added to the database programme.

on will be created using the infor-

metion in the cutient massage

bize vs. a SontMall Ingger. The new. Illes each day can also be displayed a swinctory, sa you only need to click on a file end of will be maked to download it flad the interdially useful for collecting actives for the CUCDs. I scan the NewFile's window each marring and circk on enything than they be suitable. There's on need to go nivigeting. Ammer's directious with on FTP program. The

whole thing is done automatically You first need to set up the file detabase Download the latest INDEX file from Aminet, and use Aminet Paise to Import it. There is an Affects script to do I file, but

Mea (C) | Mea (C) | Neen (S) | Ashmit (4) | Preferred Amore site (doubte-click on site por next | Constain | New York on the control of the port of the control of the cont

▲ ConsuctTHOR ofter using Str AM.



▲ My Their sectop, feacy kincledespecture possible, but terrand off for menimers condubility.

AmnetParse is mony times faster, and is included in the Extree drawer on the CD. Copy Aminet Paise to Thoi's bin directory and AddAmhet their to Thoi's raixed drectory. Then execute AddAmhet Indifferent he ARAX menu.

If you change your rand about a med vour exwriten, open the Events Editor from the Windows meau, this shows a list of all queued meil, riews and rije events. You can obt and delete evants, or freeze ihem until later (useful if you want to delay legge FTP downloads until the events).

options to configure but delaults

are e good sterring point. Look in the various configuration windows to see what is evaluable, context-sen sinhe help's available from the HELP key. Remember the Browse. News bustom in Connect Thorth's for online newsgroup browsing and is ideal if you want to give a silec-

tion of messages, rether then a full feed, or dewnload a specific procle. We've only scretched the surface of what's possible with Thor so look at some of the Affect script to see what else is possible and read Thronguide and subscribe to the Tho

mailing list elso.

A Setting up E-mail parameters during installation

Online Thor resources

There is a support melling list, send a mot to mejerdemo@thule.ne with "subscribe thei-mil" in the body of the missage. The Thou web side is a thipt; //www.thule ne/ther. Program updates are available from the web elte or by ftp from ftp://ftp.thule.ne/pub/amiga and the camm/thor directory of any Arminat elte.

Sound Lab

Image Processing othuA rot seupindself





What... use en image processor to add effects to your audio samples? Well, anything's possible you know.

image processing softwere as a tool to manipulate audio date Now, we will further interesting effects. Well also take a

penerate new sounds from scretch To hear the potential of this unique method of sound processing liaten to the song clips included in First, a quick recep of the processing method covered lest month

STEP 1: Preparing the eudio file To load a sound file into Image procassing software we first need to convert it to a format common to both audio end image data. Raw This can be done simply with a promarm like SOX

SOX Figno, iff Figno, raw

does not contain a RAW loader madule the Sculpt module can be used For 8-bit eudio files use Sculpt

The loads; will prompt you for image. Use dimensions that era large enough to accommodate the antire audio file

STEP 31 Processing the loaded data Perform whatever image processing functions you like on the loaded

STEP 4: Saving the detail If provided save using a Raw saver modula, otherwise use a Sculpt STEP 5: Listening to the modified

To hear the raw sound, use e program such as Play16 and indicate the frequency to play back the

Tutorial - Part 2 again use ImageFX 1 52 from the coverdisk of CU-Amioa - June 1995 to do the date menipulation.

here can be easily applied to most image processing progrems. For audio pleyback end audio format

For the following tutonel, wa will

Also in the Sounds/ sub-directory Processed/ directory you will find imageFX using the methods that eve described here

Solarize As with most of these properses

the effects of the data manipulation can be very different with different sounds. The solenze image affect is can have very different results

using a width of 300 and height of 289 From the toolbox, select Color and then Solenze (Figure 1). This is a Pieno-Solenze raw end listen to it with

Playlé FREQ=16760 Piano-Solarise.rew The effect is not diastic but makes

Anglei Any Angle Cancel

the pieno sound like it is swarming with poisy beins. Compare it to the pilainel Paino raw sound

Playlé PREG=16780 Sounds/Piano-saw

Load the Sounds/Thunder raw sound using a width of 250 and height of 281 Perform the same solenze function and save the result as Thunderthe onginal

Play16 FREO=16780 Thunder-Solssiss.rew Play16 FREQ=16780 Sounds/Thunder.raw

The effect here is very much like a low and audio filter. To hear a more obvious exemple of this filtering effect perform the solarize fund tion on the Sounds/Sine raw sound load it using a width of 256 and

Sine-Solenze raw. The low end filter ing is very abylous with this sound Listen and compete with

Play16 PREQ=9600 Sina-Soleriae.raw Playle FREQ=9600 Sounds/Sine.raw

Irrane processing functions can have a very interesting effect on vocal samples Listen to the Sounds/YMMind raw sound to hear 8 normal volca speaking

Play16 FREQ=9600 Sounda/YMMind.raw

Now, try the solarize function with Load it using a width of 200 end height of 141, solanze, save it as YMMend-Solenze raw and listen with Playle FREG-9600 YMMind-





This is still a diestic. the change in rotation nicer result for this

Havelength: Center X: Center Y: Angle: Qkay | Cancel 1

If you needed a good alectricity sound then it could be a very useful

The Laser-Copter So far we have only used the image

Wa can also use it to generate new

To begin, we need to create a buffer to slore the image that we box, select Buffer and then Create buffer (Equire 3). The width and the length of the sound file, so 1060 rate of 16780, that will ove us 14.28.

Now that we have our buffer ready lets create something to put and then Create From the Create Wave Generalox Set the Wavelength to 30, Center X to 530, Center Y to 113. Angle to 0 and Dampening to 0

This function generates the wave in un elphe channel buffer, so when the function is complete we need to can see at To do this from the tool

value of the Wave Generator value will generate a sound with a lower pitch, while a lower value will

Try the process again with a LaserCopter6 raw. You can also change tha length of the sound also

Signed vs unsigned

Lasers opter 301 16709 20104

with its data as unsigned values the way that all image data is sterad, regardless of the softwere necessarily the case for audio data On platforms such as the Amige and SGI, audio data is stored as signed with positive end negative values.

is important to keap this in mind.

The Laser-Copter sound that we just generated demonstrates this yary well. The image processing Armiga uses the signed deta format for audio. Play16 will use that by

Plsyl6 FREQ=16780 LasurCoptar30.raa

Play16 FREQ=16780

format in the law file is unsigned LazarCoptar30.raw UNSIGNED

To hear the sound properly, it is nec-

Flav16 FRE0=16780 LassrCopter30-2.ras The Big finish

duce some very useful results. But nique, it does takes time to get

in Figures 6 and 7 with the image in Figure 5 you can see that Figure 7 is

the closer rapresentation. Instead of

you could flist use SOX to convert

The -u indicates the source file is

the source is in 8-bit byte lormet -s

indicates the destination like should

rate (-i) be given for the source file

so it does not matter what value you mantation for more details. Hewmo

langer necessary to specify the

sox -u -b -r1000

LassyCoptsy30.rea -a

LeserCopter30-2.ras

will do the conversion

In many cases, it may be necessary to clean up the created sounds softwara to filter unwented noise of out bad sections

of a processed sound is enough to make a terrific percussion sound or some strange instrument Dhomes Trenn

solarizs.rea

This effect will make the voice nose bracket and we have got a real

tant to experiment with an effect on vou've missed

Rotate

The rotete image effect can have some very interesting and very dras-

Load the Sounds/YMMind raw height of 141. From the toolbox select Rotate, set the angle to +28 degrees and select Any Angla (Figure 2) to start the process and listen with

Flay16 FREQ=9600 Yellind-Rotata+28.rsw

This is a very disstic change, but not that useful, unless you like raunchy

Reload the original sound, or use ImegeFX's undo function and try life

Playle PRED-1600 YMMind-Motata-90. ras



Desktop Publishing

Professional Page 4.1

Larry Hickmott kills two birds with one slightly used pen as he works through a tutorial on using DrawStudio Lite and ProPage to create an eye-catching CD cover.

n the front cover of last months CU Amiga you were given a truly wanderbrata that fact while controung with our tutoriels on using Professional Page, in this month's workshop, I ata great looking CD covers

The cover is two sided and fits on an A4 portrait paga. The top side of the cover will contain an eve catching image which we'll create in side of the cover some text produced in ProPage

Start here

Your first job is to create in ProPage a template for the two sides of the pover Run ProPaga, create an A4 page making sure that you have no

What this does is to give you e vertical centre line providing you heve "Show Columns" on in Layout Tools The line is used for eligning the paga

Once the page is created, save the document to drsk giving it an



A Choose "Page/Create from Befeelt" to make on A4 page with so margon and two

cover is a box 120mm by 120mm. so use the Box tool to create a frame any size double click on it and then enter the size in the Width and Height gadgets. To position the box where we want, take the centre handles of the box and line them up over the dotted centre line running down the page

To finish up, create some crop marks on each corner of the box These can be any langth but should stop short of the edges of the box A trick here is to turn off "Box Outlines' (Ctrl-B toggles thrs) and then give the marn box a temporary outline by making sure its active and pressing Ctrl-F This creates a less cluttered screen on which to work To turn off the box frame,

prass Ctrl-F again To save paper wastage, we need sheet of paper and this is done by first using the Group tool to group all the alements (box and crop marks) and than press Shrft K (duplicates the active group) Press and hold down the Shrft key and then use the mouse to drag the group

Agam usa the centre line down



A Use the Bea tool to create a frame and double click on rt. Chongo the Width and Height to 12cm and chek OK.



the page to line it all up

The only thing you need to do to clean up this little for is delete a coubetween covers. This document should then be saved to disk under a new name as a master template To avoid over writing this document, save the file again giving it a name appropriate for this covar

More templetes

The page you have just created will be for the front cover. You now nead a page for the underside of the cover and this is dreated by first from the Page manu. Now choose

margini big ta i gent by the fee in a war definition

A Use the time tool to add group marks to the less for your CB cover Hold down the Alt key as you dieg the summe to know straight lines.

"Create from Templete" and choose Even as the basis for the page. You now have two pages with the boxes m the same place so when you print back to back, evarything will line up sweetly, Saya your work so far

DrawStudio Lite

Now we turn our attention to an imaga for the front pover. The ways of going about this are minited but here's a symple method to get us started. Choose the Rectangle draw a box approximately the size of a CD cover it doesn't need to be exactiv 120mm but you should have



Shot, dray our of the objects to the group and all the elements will move at the same time.



▲ To exente a template of that page, chaose Make Yangdate/Even from the Page make



A The "Fill True" in this screen weak is out to Tile and the dpi to 1289. DrawStedia allows you to use the one brimes in different ways from Milian am object whele or bilmy it at more different resolutions

en idea now of how big the box wark we have just done in ProPage

You now need a bitmap for the box preferably one ground 640 pixels wide and square in shape. Meke Bitmep end then on Edit In the Bitmep list, dick on Edit and in the "Edit Bitmap" requester choose New to load a bitmap and then give the bitmep fill a nama

and create a box over the picture and fill that with a Irensparent colour This is done by choosing Object/Attributes clicking on Solid, click on New/Edit In the "Edit Colour' requester create a white (255 255 255) and then change Operaty to 70% Click OK OK and partly transparent which is a useful trick to know when you want to place something like text availan image without it getting lost in the

ment to the above steps. Later on, we will be exporting this image and the trensperency will be last if you choose 8/bit colour because transparancy requires aither 24-bit export

able in DrawStudio Lite). This elso



year preject.

Lock Bexex Cancel 68 A You can saw create a page from the Even template on you have two identical pages in



A To aspect a finicipal image from BrowStedia Lite, change Prosect/Export/Bitmou Options, B. but releas or Whit array. S-hit colour, losses ony transparency applied to abjects. V2 allows 24bit arguet on transportately in retarned

ple. I've called this sample, 'Fishy

Pix in different ways. The bamap fill

for the text is the same as the main

fill but this time, tiled with a high

using the same bitmap fill but in dif-

text and create a bleck (or other

colour) shadow which is placed

slightly offset to the left and above

of the onginal Follow this with a second shadow, this time in while.

slightly to the right and below the

A second piece of lext is created

which runs down the left of the box

on the nart not covered by the trans-

perent white box. This second piece of lext has been rotated 90 degrees.

Like before I have filled the lext

with the arminel bitmep tiled as

well as adding a black (or other

colour) end white shadow to creete

inset pictures and logge to make it

look ultra professional. In the sam-

ple here, the inset pictures are creat-

ed by taking a rectengle warping it.

filling it with a new mege and then

To conserve memory, use for the inset pictures, images no more than

Moving on...

ferent ways Now clana (Right Amige T) the

main lext.

320 pixels wide



A Yes con separt your image on a versity of larmets which is very useful if you are using different types of personners.



DrawStratia Lite. It's unity uneful if apportion up errotose the image in 9-bit proyecule



A Hurp to our finished lavage. All the elements are now candy to be grassed out experted so they can be ploned unto the page in Professional Page.

Now add some text in a really bold

The finished article

Once the image for the CD cover is finished. select all the objects Export/Bitmap from the

Project menu. The size can be anything from 600 to 800 pixels wide for excellent reproducsilo iets You certainly should-

n'i see any la ggies oi resolution If you do. then you should Iry setting a higher

The imega can now be exported in 8-bit colour or 8-bit Greyscale Remember what I said earlier about how using 8-bit colour will result in If you want more colours and antialiasing you need varsion 2 of

With the image exported and saved to disk, you are now ready to import it into ProPage as the basis for the front caver Don't warry if the colours don't ell show in the 255 colour screen-mode as they will ong fine Personelly Heave ProPage in the Black and White screen mode



A. This example in the E-bit colour image Imported into a ben in ProPage. Histica bow the background has drapped not to white. This is bucases transparency is fast when experted on (j-let colex). If you want transportately retained, channe 8-bit orer as not DrawStodie V2 which has 24-hit support.

and although the image doesn't look great an-screen, it does print fine and I also had ProPage zips along a lat quicker than when in colour

Ill leave the final touches up to you but don't larget to fill in the instructions for your CD on page Iwo and add envitext to the image that is required. When ready pont page one, turn the pages over and then pont two

That's about it then for this going to be looking at using titles for use in ProPage or for those vour WEB pages Larry Hickmott

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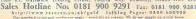
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Trashed Workbench



working fine until we tried to instell an Oki Microline 380 printer through the Workbench preferences When we lined this we we found that all the Extras 2 05 and Fonts 2 05 - had numerous trashed files Can you edvise me how I can get

Mr. A. Lomes Manchester

This just goes to show how important it is to make backups of your Workberich, As soon ee you get your mechine up and running, you should back up these disks as your computer's full functionality raises on it.

The best bet for replacements might be Power computing (tel 01234 851500) but we strongly advise you to look into why severel disks seem to have been trashed. You may have a virus on your avstem, get a virus checker from your local PD house and run it over your disks. It is also possible that your floppy drive mechan'sm is starting to wear out.

Swing eights



I have a particular interest in using my Amiga for music (not mods) Tuse a S O U N O sequencing set up with a immediate plans to build a Project



to the interest project XG will generare and there will be many who

native approach mey I suggest This costs around £199 and is basi-

wide range of sequencing and note-Iron softwere available. Would you eveilable for the Amige? If would appear we are being left behind A requirement I recently had was In the able to write in 'Swing Eights' can you tell me about any Amiga

software that can cops with this? Days Roberts, W Yorks.

To be honest, there heven't been that many developments on the Amiga music hardwara/softwere scene over the lest couple of veers. We could say to ourselves "Lat's do a music feeture!" then find out there's nothing much new to sey but do it any. way (for Instance, Interviewing people who have never even used on Amiga to make musici. However we faal that wouldn't be giving you the best sarvice, nor the best economy of pages. Most of the developments are heppening in the sherewere scene, with the continuel evolution of treckers and the very promising Camouffage MIDI sequencer. That's one you should definitely check We're not sure if it'll suffice for your swing elahts, but it's odds on that it will

1438 blues

Recently Lordered a 1438s monitor from First delivery I expensioned a few problems If I used any of the higher span relies, strange horizontal

I had a lot of trouble in cetting ell me that they had lested it and there was nothing wrong with the montor I am ewere of the stray magnetic field problem but I don't think this may be a fault with my computer 1 have an A1200 with 6Mb RAM, an

I am now yery cautious at the

so could you help me by suggesting.

Gereth Hill, Bernsteple

It's difficult to be sure without seemg it, but it sounds to ue like you ere suffering from e common problem with your A1200 Some A1200s have an abscure hardware flew which causes interference on higher ecen rate screene euch es Multiscen end DBLPAL This usuelly menifests itself ee white flickering horizontal lines. The essiest way to tell whether you are suffering a problem in the computer's display hardware or with the monttor is to observe the behaviour of the interference when you drag a screen. If the interference drage down with the screon then the problem is with your computer, if it stays who o it le it's probably the monitor, eithough dodgy connections and faulty cables are also a suspect.

The interference problem some Aminas have with the higher display modes usualty goes ewey after the computer has had a little time to warm up. The axact causes ere uncertain, but we have heard of a possible hardware solution. Apparently it can be fixed by shorting out the tiny surface mount resistor merked E127R This can be found on the underside of the board beneath the chip merked "Airce". We heven't tried this ourselves vet, so do progress With ceutronl

Hot Blizzard



tor with 8Mb of RAM for my A1200 It gives out a n't help. Then I drilled some holes

Therefore, I decided to buy a tilly cooling fan from Tandy's It is small 12V the lan needs. Do you have any

Gery Colville, Scotland

68030 acceleratore do gat hot, it's the neture of the beest. Just so long as nothing is setting scorched, this shouldn't be a problem. Dose your computer crash a

lot with the board in? If not then the CPU isn't really running too. hot. Of course there is nothing wrong with cooling it, and a fen is a good way of doing so. Getting power to the len isn't too herd, but will require a little sopery pokery with the wmmq. CPU fene ere designed for CPUs in cases and tend to have a connector which plugs onto one of the spare 3.5" device power connectors, the type which would normally power a CD-ROM drive or e 3.5" herd disk drive You can get an adaptor which will plug late the floppy disk drive power header on your motherboard from most Amige herdwar a suppliere.

'060 far too slow!

The CD version of Cenema 4D to gain full rumo rather ti an move smoothly.

the FPU calls were not being emuleted on the 060 They told me I needsure it would work on the Apollo Currently I'm sticking my old 030

In general the '060 card has same problem as Cinema 4D when

Grehem Stevenson, Glasgow

Tech Tip: Over-clocking



ably have heard If you

res vites may allow you to modify it for prester speed. Some people think it leads to he'ry repelr brils, other people think it Is a creat way to encrease the speed of their Arrega for a musimal cost. We don't recommend. the procedure if 5 up to you to decide the error and cons but if you want to do it, we'll tell you how it's done and advise you on the hest ways to avoid any potential petfalls. If you eren t reasonably confident, dent do it It is reasonably safe if you are sansible but you can blow up and your guarantee will be voided by the procedure R A happens, don't blume us

The principle behind overclocking is very straightforward When you buy an accelerator which runs at may \$000Hz, it does not run at this speed because of somsthing inherent in the design of the CPU is need at this speed because of the clock which sends it a timing pulse 50 million times every second. The printed speed is marely the one the manufacturer guarantees it works et. Getting the CPU to run at a diftorent speed to a matter of sending it a clock pulse at a different speed. There are fairly tight limits, but it is quite feasible to up the speed of your accelerator by

aroused 20% On your accelerator you will sea a small square or rectangular silver chrp the bea. It will have a whole bunch of numbers printed on it, the last of which is usually the clock speed in MHz Expect. there to be a lot of depts ofto: the decimal point - if you have a 50MHz eccelerator et wilt say something like 50 000000M. This Is the clock and amazingly reclocking simply means replacing it with a leater one Theye can be bought for a few pounds from most electrorucs i stellers

B you're lucky you'R find the clock is mounted in a socket and can samply be pulled out if you or o unlucky you'll find that It has been soldered anto place, m which case steer clear if you aren't a soud saldering iron lockey, de-seldering from an intricate PCB so very hard. If you do take on the task, use a solder sucker

or desoldering braid and remove the solder slowly over severel pesses, not holding the iron to the board too long at any one go to avoid demegling the tracks.

Notice one of the corners of the ctock is either merked with a dot or equered off or both, this shows the clock elignment. Stick to this when you insert your next clock. When the old chip is removed, drop the new one in its place and away you go.

How fast is safe? There are very real limits to how

much e processor cen be clocked. although it varies from thip to chip Some people may find that even the smallest emount of overclacking will lead to immediate system creehes, others can get away with murder. If you are using a cheaper accelerator board in which the processor is alrandy clocked, it's not really edvisebto to try it. As a very rough guide

-	Origi	rial	Pr	00	205	ac	r.	.No	w	nle	ck
- 0	30/	33 .									42
- 0	30/	50.									50
- 0	140/:	25.									33
- 0	340/:	33.									40
-	060/	50.									154

Some people have systems running fester than this, others have problems going this fast.

An interesting exception is the new mask revision of the '060, which has the social number XC68060RC50A This is the chip used in the Apolto 1260/66MHz board, end we have hed it running at up to SOMHz, just about.

What can go wrong?

Assuming you've instelled prosily, and you haven't been alily with the clock speed, not much It the computer crashes a lot, you mey have to give up and re-Install the old clock, but otherwise it should be ok. You'll be running the chip at its limits, so keep it cool. Ensure good ventiletion to the CPU and make ours it has a good fan on it. Another Isc. tor is RAM speed. Slower SIMMs are problematic, and with testor clock speeds you'll need fest SIMMs Even 80ns SIMMs may not be un to it in some sases. elthough there are also significant brend to brend veristions to make life more interesting



such se these use FPU functions, and here you can rnn into probleme. With older progrems, the FPU code is written essuming a 68881 or 68882 co-processor. The '040 and '060 have somewhat different instructions set end e different way of calling FPU instructions. The 68060 library and the 68040, librery do enough between them to ellow the processor to function, but this does not meen that all the FPU problems ere solved, fer from it. Cineme 4D bee en integer var-

sion for people with no FPU hardwere whatsoever, end this is much the slowest version. The FPU version lunctions with the 6888x Instruction sat and is also recommended for '060 users with Cybernatcher This is the softwere phase 5 anpply with their '060 boards The version for other '060 boards is an odd one. if you properly implement a true '060 version of your code, it ought to be more optimal that 5888x code. I would esenme that the version of C4D for other '060 yerslone is written with '060 code, in which case it ought to be better on cyberpetched boards too. Apparently not.

Cybernetcher is written to run on phase 5 boards only Oxypatcher does a very similar job, but will ron fine on your Apollo board, If you get it try running the FPU version recommended for use with cyberpatcher, you should find it considerably feater then the integer version. And yes it will make both Imagine and TFX A530 must go!

I currently own both an A500+ and a bog standard A1200 The A500 the a GVP A530 sticking

ont the side of it. I would like to expand my A1200 but I leck the funds to add much to it So I was wondering if it would be possible to use the A530 with my A1200 using a squirrel for exempla? If so what exactly do I need to use to echieve this? Also, will, the A1200 have access to all the A530's functions?

Paul Delton, Lanca

The incompatibility between the A500 expension slot end the A1200 was the reason for a lot of people to not upgrade. There was never a converter made, but es you have spotted, this does not meen throwing ebsolutely every thing out. The equirrel interface provides the A1200 with a SCSI bne, which is what the A530 has. Unfortunately this does not masn you can just plng it in, the A500 expansion slot is a complex DMA slot very similar to a Zorro slot.

The SCSI bas is implemented internally to the A530. This means that the only thing you'll be able to get out of the A530 vie a squirrel is eccess to the hard drive. which is a SCSI device. You would have to rnn a cable from the equirrel to the inside of the A530 There ie no chance of getting the eccelerstor to run on an A1200, and evan the RAM can't be used as it la

2x not enough?

2 spend CD-ROM drive CD. TOM via a Squirrel Interface is it possible to upgrada my CD to a copy of the Epic Encyclopeedia and efterwards found it required e 4

Mr J W. Fry. Doncoster

When softwere states that it regnires e 4x minimum, this is nanally because it tries to spool animetions from the CD. This technique ellows you to play far targer enimetion sequences that could comfortably fit in memory. This needs date to be sent from the CD feet enough to keep up with the enimetion, hence the need for feirly fast drive mechanisms. The good news is that if you

went to apprede your drive, it is inst a metter of briging a faster SCSI CD-ROM drive end plngging It In.

Mini Tower Mania

I went to upgrade my

budget (£250). I have decided to bey a herd them into a minitowar but I have some questions I'd like answered t. What size hard drive should I buy? I generally only uso my Amiga for playing games. I have around 50 hard drive installable comes and all

ef your CDs from 9 onwards 2 What speed CD-ROM drive do ! i naed? Would a 4 or 8 be sufficient or will I need faster? Casteinal Edvet £100 is this a misprint? 3 I need a minitower but I'm not

sure I want to risk doing your DIY project. Do you know where I can get a minitower with all the cables etc. and with all the hard work 4 Will I need some extra RAM? I've

meny of the new games coming ont. 6 Should I get IDE or SCSI? What's

haven't bothered to onnt this.

Kevin Conninghem, Bellest.

1, It's difficult to enswer, as the extra space keeps on getting chesper. In theory a 1Gb HD should be ok, but then if it's only a tenner more for 1.3MB it's elily not to get that. Except that it's only another tennar for 1 7MB ... etc atc 2. 4x will do for most purposes, but at least one game we know of (Golem, from Underground Softwers in Italy) really needs on 8 speed CD-ROM drive Faster is a luxury. The 100 speed drive in Gesteiner's ed is not e misprint. bnt should not be teken at lace value. For some bizerre reason the PC market has developed a 'my CD-ROM drive is fester then youre obsession, which has lead to some menufacturere using the herd drive se a buffer for greater spead. The Gesteinar device is ectuelly a 24 speed mechanism, the Amine buffering softwere should be ready by the time you read this. We'll tell you how it performs when we get one in for review 3. Ring np Eyatech on 01542

713185 or ICS on 01474 335294. They'll offer elternetives on which way to go, so listen to them and choose whetever enits you bast. 4 Yes, most new gemes require 4-EMb of RAM. Seriousty consider a cheep accelerator, the best upcoming games went one of those. 5. Only if you intend on having a 'eidecer' style mini-towar mounted

on long cables. For shorter lengths, buffering has shown to be nanacassary If you ever went to attach more then 2 devices then a buffered splitter is ideal Despite warnings you may have heard to

the contrary, thousands of Amiga users use 2 devices connected direct and we've not heard of this demeging e computer yet. 6. IDE is a cheep but useable option. SCSI involves buying a sensuate SCSI edepter, and SCSI devices are more expensive. The good filing about SCSI is that you can connect 7 devices to a SCSI interfece quite comfortebly, while IDE is pushed at 4 Also SCSI is fester - useful when doing something with a lot of data throughput like writing to CD-Re In your casa I Imagine IDE would be better. Oh by the wey, up yours tool

Shrinking HD



After some difficulty AGA to my 1200 Mb herd drive I found that I

was getting a 'Volume Work no velideted' message on booting up 1 to reformer it, but I never got that when I checked the davice list there was no sign of DHO or DH1

regall shap and when they returned rt, the hard drive had only 40Mb of spece on it. They said they thought I hed formatted one of my partitions. Hons I checked inside and yes it is the same herd drive I installed

What's happened to my hard drive, and cen I cen get my onginal capacity back? Will I have to buy a new hard drive and if so is there anyone who does part exchange

Alex Furmenski, Luton

Sounds like part of the hard driva is corrupt. Try scanning it with Querter back fools then reformatting to see if it frees up that space. but remember not to de a 'low level format' se it will only make metters worse. Our guess, is that se the game was installed the herd drive suffered a kind of clitch or power outage or physical shock which demaged the bard disk

The repeir house would've fixed it by marking the bad blocks on the dask as out of service. which means lowering the capacity of the drive. In this case the only option is to buy a new one. As for pert exchange, 40Mb is so little nowadays it's barely worth enything. A look at prices should chest you up though, they have dropped a lof recently.

A to Z



Good grief, ara wa up to letter C already! Time sure does fly when your havin' fun and John Kannedy is the man who's giving it to you.

A piggiemming lenguege which speed and human readability Very suitable for programming applica-

Onginally called "C with classes" C++ builds on C adding extre fea-Onanialed Diogrammers C++ compilers can elso deel with C source programs

An area of memory designed to slower A disk cache stores infor mation in memory which is quicker CPU of the heart of the Amige has internal ceches for storing data end

"cd ram" makes the ram disk the current directory. All subsequent

chengetaskpil

Amiga is multitasking, and so You will need to know the process to find it. Then use 'changetaskon

custom thios and is used to store sharing, if an Amige only hes Chip beil if runs more slowly then if it also has some Fest memory Chip

which edded some extra editing clicktofront

A Workbench commodity progrem front as soon as the mouse point is

A 'Real Time Clock', ramembers switched off RTCs are standard on Big Box Amiges, but need to be installed on A1200s. Most are built into accelerator cards

which captures putput meent for

end AGA Amige's can pick from once depends on the screen mode friendly modes, and many thousand in HAMB made. With e grephics. played more quickly Commoditles

The Amiga Workbench fried to cre-

Exchange program on the utilities to be exemined. A great idea, missing on other pletforms

A program which takes source

code (the almost-English entered at the keyboard by progremmers) and the Amina cen run. Along the way it may convert it to Assembly Language and some systems require linking es well. Compilers

Ior C C++ Pascal and Besic ere available for the Amige

A unique part of Amige herdware The Copper is the copiocessor which spends its time looking after the screen display The copper has its own program, called a copper list, which is executed every time the screen needs to be refreshed and which contains mode and colour information, amongst other Things By altering the copper list 'plesma'

a lot more to it than you might the more basic usege, and it copies the file called 'name' to the new

At the heart of the Amige is the

This is the chip which runs the operating system and envisoplica tions, and keeps the rest of the ell Armas use Motorole 68000 68020 58030 58040 and 68060 processors at vanous speeds chips, a processor called the able. These ere between 3 and 15 commend, used to control venous especis of the Amige's processor

Custom chieset As well as the CPU, the Amos has

lot the Amigs! which look effer grephics and sound. Although when the Amipa was leunched lege in its capabilities, perversely they are now out of dele end hence holding back the Amiga In several areas, notably last grephics, fast comms and 16 bit sound



Backchat

Make yourself heard. Send your views and opinions to Backchat, CU Amiga, 37-39 Millharbour, Isla of Dogs, London E14 9TZ, UK. Or E-mail to backchat@cu-amiga.co.uk

More failures please! Lam just witing to say that the "What Went Wrong" article in the Ju-

edition was fin the words of a move I well-had reconflict. Will you be running any more at Will you be running any more at Niture 7 for instance. Who's Who in Amage? What heppened to all the people revolved with if were they all obsorbed art of the Scale configural? By the way I remember reading a book years ago about the story of Apple is these any such book for the Amage? Will he actory like in the Amage? Will he

Lance Eduse), Liverpool

As far as we know, there hear't been a definitive "Story of the Amige" book. We could do a "Where Are They Now?" kind of thing, eithough to be honest we'd rether concentrate on what's happening now, is then then dwelling too much on the past.

Don't give up on us I would like to say that you have a

make orrer some nice compliments; Now to the complain! Over the lest few months I have like everybody else been walting impatiently to leg it down to my local newsagents for my copy of CU II buy no other

Of course the CD-ROM is etisolately superb, but the megazine has been sorely disappointing! Not, the comen! but simply the size! Each month when! receive my magazine! settle down for a night of informative, interesting reading. Unformately my high! only lasts for about an hour or sol Then I have to wait for another whole month! Arothishishishi!!!

Arghhhhhhhll!!!
In recent issues I have reed read
ers letters suggesting things like Tmail perpels etc. Would it oost you

tore letters/Q6As? but FAQ seems to e finishing! loss that nean we'll ose yet nother

The held ware/DIY scene is a welcome eddition for me es I em unemployed

bottomies set 1 i remembes seeing a project on Aminel for a Zoro slot expension to enable on A500 to use a graphic card how bottom that project but medited to a A1200 using Picasso65 software? Os enther would enable us for use PC sound card, or salvage one - They are much charge than the three three

On a "Ne sard we did oil but we haven! note I read in one of my older issues that you would be putting the entire Imagine 3 titorial onlo one of your excellent CUCDs when? And the full HTML tutorial would be nice too!

And I am still weiting for my Amige tower sticker to pull on my new tower case! Don't get ma wrong, I d still buy your mag if it deteriorated even further, as the CD makes up 10 if but do you now see yourself as e CD with a mag attached or The best Amiga. Magezine with a cover CD that PD houses would die for?

Please sort yourselves out, as a seems to me that it is just a precusor to the lime when you, too will abendon your loyal supportars! I would not enjoy my Amige half as much if I did not have CU!

ation of Amilylags closing down on IRC, and my opinion was that how could they after ell the money their readers have lined their pockets with? The opposing argument was

the 'Bill Gates style of response - if you slert to lose money yo

loss money you pull out business is business is business is business in busine

heve to suffer a pay cut is that any reason to change employment? That is e cap out decision!

I would just like to finish off by

I would just like to finish all by saying theil I do enjoy your megazin and will buy it until you too decide to give up on us

Pootle, vie E-meil

First, let's tackle the issue of size, Vow'll notice that this losse of CU Amiga is bigger then it has been to some time. We are now at 116 pages, as apposed to 100, the previous size of CU Amiga since the Vious size of CU Amiga since the segizant is linked into the various magazine is linked into the various magazine is linked into the various costs involved in producing and distribution of the size of the Amiga scene has shrunk, this has had an obvious knock on effect.

With less money in the system, we cannot efford to produce a 200 page magazine, much as we would like to. If we did, we wouldn't lest long. As you point out, "business is business" end no emount of Amage enthusiasm is going to keep a magazine going if its finances aren't propair with menseed.

However, the recent renewed interest and slight upturn in investment in the Amige trade has this mouth been pessed on to you in the form of a slightly legal issue. You will also find that we pack in a lot more words, facts, comments and figures then you will find in your average megezane, page for you have to make suit of the ways we try to make suit of United Reviews on the value front.

on the value front.
As we have said before, CU
Arrige Megezine will continue for
so long as it is finencially visible.
The bit about the Arrige press "line ing their pockets" with their leaders' movery sounds a sittle hercalers' movery sounds a sittle hercalpools of citigs 550 notes if only! 550
long as smough readers keep buying the megazine, we'll keep our
and of the bir gein.
Finell' you should find the com-

plate Imagine 3 and 4 tutorials on the January issue CD, which coincides with the final part of the series

Lopsided spine

Jost a quick word to fall you know how disgundled lam with CUED 15 Not because of TPX (which was good) not because of the CD con tent at all that is usually very good Not My complent is that you have changed the Amage Togo on the spine of the cover from the left had said to the legith hand saide My CD statects now looks lop sided! You could've wetted until sery 16

Issues, then changed it eround, it would then, maybe have made it easier to find which CD you wenter

Tom Newsom, via E-mail

Letter of the month

Did I miss somathing? I have a question, where leve all the

software advertisements done from your mag? There used to be pads but now there are only shareware. because I would like to be

be upgleding my Amigs ... atter three years on the PC Yes, know review on all the accelerations out there. Or lust report the reviews

K. Shirley, via E-meil

Sure! Tell you what, if anyone has missed out env other issues for not bought tham' as it a otherwise known) why not write to us and wa'll ra-print all them in their entirety just for you. Yeah, right! That's a jeks by the way You can order back issues of course, from our back issue department. See the sdvart lusking somswhere around this back pages for details

TFX Configuration I'm glad TFX finally managed to see

the light of day I must thank you for

configuration to get the most out of TFX on a Blizzerd 1260 Accelerator

have no idee of using air to ground

Gunnai Gartzen, Hanneval,

CU Amiga Magasine la distrib utad in Germany by Saarbach Press distribution, Hans Böckler Strasse 19 Postfach 1562 If you have any problems getting a cepy, contact them. The easiest thing le, as elways, to subscribe As for the Cologne show, wa'll sea what we can do.

1 Boot with no stertup-sequence in 2 Have your ROM mapped into tas tram (the game appears smoother with BOM 3.17 don't ask me why

4 Run Cyberpatcher (Phase 5's 5 Use This configuration in the con-

Detail High (Medium if it is still too enky with Visibility between 4 and 71

SFX Up to user Music: Up to use: Horizon 32 Visibility Between 4 and 7 (Any more then 7 and the frame rate TFX a speed the higher you take this

Texture Enabled Gaurede Enebled View Switch: Zoom Show Wespons Yes

6 Execute the TEX EPU sount in

This configuration was setup on a CyberVision 64/3D u

1 2 GIG HD My computer is Powered by Amide

Lat's ell meet up...

Mark Dakeysar, Canada

We might just do that you know

Gataway plans

It mostly includes similar news to the interview with Deireck Liste by September 16th (check dut http://www.cucug.org/ammew.html also includes a few other pieces of

Like the fact they have over 400 or the fact that they plan to make a vided cards, and is priced to compete with Wintel boxes

Name not supplied.

Sprechen sie jergon?

but only one real complaint Lightweve and Imagine 4.0 with hints, but it you don't have a bloods clue what they are you're stuffed! Let's have a little more intro for the Never seen the mag/Amige before owned on Amigs for five minutes Also, I have used that the Apollo accelerator is tentestic and a steal at only £300 but what the hall is it and why do I need one?

Why when I loaded my free disk last month did it not appear on the screen? Apparently because I don't heve a hard dovel Why cen't you tell

I think you get the gist of what keep up the dedication end quality consideration to us newcomers Thanks

Stawart Faux, via E-mail Deciding on the level at which to pitch the tone of the megazine is

tricky and under constant review. We are under the impression that there sign't many total nawcomers in the Amiga scane (light now, hence the more advanced slant on most sepects of the mee However, we take your point. We de stata the system requirements of our cover disks, so take care to read tham and make sure you've got sufficient hardwara Why do you need a hard drive?

Well if you don't mind awagping disks until your wrist locks up then stay as you are For the record, on accelarator makes your noftware run faster.

Mines floppie

lown an A600 without a CD-ROM days and am becoming annoyed about the attitude of those Amige own e CD BOM days. For example, Christophei Avmei (Oct '97 issue) who asked you to 'get nd of the floppie disk version. Pleese do not | CD-ROM drives are expensive and as far as I know, your CD coverdisk is not

Though there s a lot more informatien on CDs I know a lot of people who would not be able to buy they don't have a CD-ROM Please keep the floppie version alive and keep up the great work

Ross Whiteford, via E-mail

Our CDs will work with your A800. All you need is a CD-ROM drive. We suggest a SCSI kit with a Squirral interface on the assisst solution. Altainatively, and more to the point more cheeply, connect an IDE CD-ROM drive to your A600's internal IDE connector.

Rock and roll!

So much talk about PC versus Amiga all the time. Yes, I do it too with my triends who all have PCs of course

a scrot that's like an AmigaGuide on a PC? No - they don't even know

to write such a script on a PC which AmigaGuide appears to be unique

ago now I wrote Norwegian postcodes in an AmigeGuide - over 7000 lines Phiw But I would certainly like an upgrade of the AmigaGuide itself now. And I've seen some too. but they ere all too over-exposed Just let it be simple as it is now Maybe a little more for example colours or possibly to show a pic-

ture with nodes inside the picture Then you could make something look like a real program. There is already some programs doing that but they're too complicated

Call E Bosan, Norway

You're right, there is elreedy something like an edvanced version of AmlgaGulde, with support for pictures and enimations tee, it's called HTML. Medern PCs use this on their standard hypertext system end there's ne reason why you

couldn't switch to it as well. So. 7000 ilnes of Nerweglen pest codes sh? Shame you didn't invite us to the perty - sounds like a right old kness up?

Paging Justin Tuill

On Page 97 of the October issue a latter was printed from a Mr Justin Tuiji who lives in Norfolk e small part of which mentions an engagent oflensive letter sent by RBF Softwere

As we do not have a record of this reader's name or address on our database, we would in ferinass to us and CU Amiga ask Mr Turil to send us a copy of the offensive letter he mentions (you obviously have tigate this malter as I in turn find this public declaration/accusation of being oftensive very unfair end would, if possible like to get this amicably sorted to both parties estislaction

Ray Burt-Front, RBF Software

I have a cunning plan

ye just heard some news about Microsoft, which has left me shocked! While flicking through a school copy of 'New Scientist', I came across a short article about the new Windows '98 package which had some of the system recussements for this new 'wonder-

full operating system According to the NS, W88 will require at least 120Mb of free hard dak space which doesn't seem unreasonable for a disk-based OS, but what really shocked me is that

the new Windows will need at least 48Mb of fine RAMI

I just don't see why people can fell for this every time Bill Gates decides he wents more cash, when the Amige is an extremely cheap

OK, admittedly recent years has seen little advertising for the Amios. shouldn't need advertising, as in the old days the Amige sold simply by word of mouth. On the other hand, Win98 may just be one step too far for the Microsoft boys, as PC users won't be as happy to upgrade their high spec machines to these mam-

moth levels This means they'll be looking for e cheap alternative, which is where out chums at Gateway/Al come in. if Geleway produce a new Amiga with new Workbench (not a 3 x upgrade but a new version 41, beltar grephics end sound, all the

- ell this for a reasonabla price, they can attempt to jalease it at the same time as Win98

The parfact ad campaign would be for the eds to go out the sama time as Wir96's, showing the new Amiga's capabilities next to that of the new Windows Strenge? No. because at the end of the advert it could be shown that the Amiga is a chean alternative that doesn't need upgrading every time Microsoft has spent some money, and that it also has an already huga user base. All I can say is good luck to Patro Tyschtschenko and Jeff Schindler's leams They'll need it! Finally, when I spell checked this file the spell checker insisted that 'Microsoft should be scelt 'Microcyst' And they say computers can't think!

Daniel Thornton, via E-mail

Not a bad plan, that. The trauble is people will buy what they ere teld to buy, hence your claver merbeting strategy to tall people to buy Amiges eyer PCs. People have been bludgeoned into the nation that you need a PC running a Microsoft QS in euder to do envthing useful. The world has been educated to e mind set, and changing that is going to be an even tougher inb than setting it was in the first place, Indeed,

good luck to Petro and co Shocking 'misteke'

I m e regular subscriber to CU frankly Review Sensi Golf Correction: "Hard Drive installabla? No. WRONG! The game is hard days installable thenks to work by Fabre who has written loads of patches for Arniga games Visit

http://www.ensica.fi/palohes.html I think that as an apology for this mistaka you should put all his patchas on a cover CD so those without

Another thing Review, Sensi Soccer 1996/97, same mistake but Thanks to me and Protr Bieneld Slick his petch (on the Aminel) on the CD too Let's not see it happen agent Keep up the great mag.

Dominic Cresswell, via E-mail

We review gemes based on how they parform on their own. If comeone has the sense to make a petch, then fine, but it still stands that out of the bax, neither of these gemes will instell ente hard drive. Your comments were told to the CD editor by the way, so look out fer a patch bonesse soon.

To the Point

Here's a nice quickie Cen you tell me how do I run PC programs on my Amega?

Louis Shenehan, County Offely.

Use PC Tesk te get your Amige te emulate a PC compatible and run heirid PC software

Give us a cerd

make a killing

Please, please anyone - give us desperately want a compatible affordable graphics card - you II

Steve Poponski, Melbeume, Oz.

It looks like phase 5 have answered your prayers Steva? Their new line of PowerUp code for the A1200 have an expension slot damqued to eccept e grephics card called the BV/sien64.

Internet Pleese

How about having some space. tutorials on how to sal up net soft ware, new updates for browsers

David Anderson, via E-mall

You de reed the megezine don't yeu? What about Not God, Wired Weild, Surf of the Menth, all the ceverage of comma hardware and seftware the special internst feetures and so on?

After TFX

Hello shere! First of all let ma say that I was as heppy as a man on your fine med. I hope that this could become a regular ventura are a number of Amiga games that wera finished but never released, Pizza Tycnon and Pully Squad are cover mount. So, how about it?

Peul Palmer , vie E-mell

TFX was a special case it was a game people wented very much and we were able to get. It's not our business to publish games, but if something comes along and the circumstences are just right...



A Sunside Gelf No. et loo't hard drave installable. Nat an standard provent.



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Points of View

CU Amiga's regular soap-box corner never ceases to spark off e multitude of responsas from you readers. Let's see what happans with this month's bunch of rants...



PowerUp to the people



It's crunch time for the Armge Sure it's had quite a few crunches efready, but it's now at a point where it really is do or del The 'do' option comes in the form of phase 5's Powerfulp parties (see the front and of this magazine for a fook at the first model to appear). soon, offening a short cul to state of the art computing that would bring the Amiga up to scratch with the very best and latest PCs. The fdiel option is as simple as it is obvious and will be mevitable. If his magnificent opportunity is passed up.

However, for once this sen't leading to a direct call to all excenting to a direct call of all excenting to a direct call of all excenting forming owners to buy ProverUp cares. Their in estat word seve the scene or bring in environe waster, elimbing this will be inconsistent or brought market to thought with being inconsistent or powerful content of Provertiga is to be realized what we need in Provertigat Ampas on sale in the high statest and read outsides throughout the world call till miny believe the world call till miny believe the world copies want on alternative to PC Committee.

patibles, and in meny cases this is simply a matter of pince. People want a more affordable entry point into home computing, but white a 2Mb 68020 A1208 is

"With a few concessions to modern expandibility (SIMM slots for example) a compact but powerful Amiga could once again rule the amateur roost".

affordable it is clearly yesterday's technology. If there's corresting the average electronics consumer has learned over the past decade, it's the leason of not becoming seddled with outdated technology.

beard an affordable Amage could realistically in the high streets did realistically in the high streets did register acquired string of techno-buzzwords to sway the discerning buyer. With a few concessions to modem expendibitiny (SIMM stots for example) a compact but powerful Amage could once again rule the amatisur root.

Whether Galeway wants to put energies into such a project, or matead channel their resources into the construction of a far bigger more distant project, remains to be seen

If indeed Geteway do decide their Amiga divisions have bigges fish to try there's still the matter of their open treatment policy, which opens the door to enyone with enough enterpose to make.

their own PowerPC Arriges
While there have been some
recent success stones with third
party Arrige manufacturers if the
Arrige as a platform is to heve
any kind of a rebirth it will require
a fair farce clayer in profet to push

customers outside of the current Amigs scene

Tear famour is Editer of CU Amigs

Patiance is a virtue

As Ampe users we all fell in the Irap at some point. We've been with it so long that we're each certain we know what is best for earthority to tell us what's going on? Hahl Who is this Jell Schindler, aniway?

From reading CU all you know is that he has to bot, mgh? YMW; hasn't he given us his engineering plan for the Amage A first time; great formet engineer? Why have the waited so meny mort his smore. Gateway bought the Amige to hear three things? It's next to be patient inhough situations five these But consider the alternative. A foll of people have pushed for Amige, his it commit to PowerPG and CHRP erchifedulus (Common Hardware Relate ence.)

Platform, a sort of generic set of standards for creating PowerPC machines). They'd have preferred that Gateway comms to this yesterday — more like a month or two after buying the Arnga. But what would that heve meant for us? First of all, it would have meant.

First of all, it would have meant that management was making on engineering decree. There were no engineers working for Amiga Inc. at the time. Keep in mind that the American Amiga angineering talent from Commodore has all moved on

Many have good jobs or their own compenies and aireft going to jump on board the first time someone calls them saying they own the Amiga. And we all remember whet heppens when menagement makes engineering decrees lidinator products result. Not to mention the

"Now that Apple has cancelled cloning and purchased their nearest rival, CHRP is in a comatose state".

development a few months ago when they all but cancelled then

The market momentum for CHRP was based around the presumption that at least in the short on. The majority of CHRP machines would run the MacOS, until other operating systems caught on with the new hardwere. Now Apple has cancelled coming and ourchased their neerest.

Imagine the demage control

Amiga inc. would be going through
now if they'd made such an arbitrery

decision without fetting qualified people look at the situation first!

The Amrga's something specall if it wasn't we wouldn't all still be here. If it is to be taken to the next level of success, it's going to need level heads and

These things take lime, so for now, we all need to be patient and let Schindler get his house in order (You though I was going to say 'list', didn') you?)

Jazoz Comptou iz US Correspondent for CU Amina.

Amiga - the new Apple?



Apple who have seen a drastic cul in their market shars over recently years recently saw the departure of Gri Amelio, a busi-

ness men red a visionary.

He was replaced by Steve
Jobs considered moie of a
visionary than a business man.

This would have been et bit ike
Jay Miner Isking over Iram Mathol.

All just before Commodore went
so apediacularly down the Lubes.

The Apple advocates are all in
haven at the conget thet Steve
Jobs the original Mr Macintosh with the beek befund the helm

steering Apple back from the brink that the evil Mr Amelio was leading it toward

The more practicely minded out where have been resing a lew eyebrows at Jobs activities sime taking over the ugins, either temperature. So lar he has signed a deet with Bill Gates a figure of hast for Apple users and secondly he hast fold all users and secondly he hast fold all the Mich Coher manufacturers that the game is ovul and that they will have to shall up shop.

Molacob who were producing Mac clones and net happy campers and may be less willing to help Applia in Jurian developments of the PPC chip. This has been jumped upon by the pro DEC Alpha camp who say that now the Arriga must go Alpha rether then PPC but the news tall trief are buying out the Alpha wither Motorole will continue with the PPC has pull a come on that

theory
Apple's claim is that they were
losing an enormous amount of
money due to the clone manufectur
ers, and that developing the hard
ware and softwere was not

"Motorola, who were producing Mac clones, are not happy campers and may be less willing to help Apple in future developments of the PPC chip."

be selling the herdware too. They say that they were subsidising even

clone sold to the tune of \$200. It seems to me that Apple have made a rather large error i can to believe that this \$200 subsidy is anything offer then a result of the way that Apple refuse to use anything they haven I developed them selves Gateway on the other hand have targe resources tied in with

Iheii PC developments. By using a healthy motive of of the shall components and Arriga specific developments, they can specify a headware platform which requires a lot less system specific development. What a more a they are really sharp, they can make the are really sharp, they can make the are really sharp, they can make the properties of the state of the state of the are really sharp.

cione markel work for them.
With companies like Index and
Micronik working on very interesting
developments of their own licensing could easily become a 2-way
process. The fallout from the Apple
business is that CMBP is no former.

ents of the PPC chip."

The Common Hardware Reference Platform is no longer

Motorole are not happy about. The basic herdware is very straightforwerd though. Motorole have a lot of expertise in the construction of PPC hardware, they have PPC to PCI bridge chrps, and they have solid the implementa-

If Gateway/Amige Inc. ware I o jump in with Ihe right offer, Motorole could be encouraged to think I hat I here are senous after natives to the Macintosh when a comes to use of PPC chips in disklop computers. Who knows, Motorola might not have to closal down its clone computer making

III Reskum Kara is Staff Writer for Di Amon.

Console yourselves?!

Why would anyone want ro buy a new Amga? It's possible tha end of the console boom is right in could be the fast Christmas for the little grey and black boxes arting under the TV and next year they could be in the cupboard with the Atan VCS waiting for car

Remember Ihese things go m cycles and elter heliting out to Playstation and a Ninterchold's also geople voor I weet any rich of geople voor I weet any rich of geople voor I weet any rich word help? I meutilitzuriers would help generated by a meutilitzuriers would help with the service of th

Although a Niri endo24 adult on Supplies and the doctor of the Niri endo24 adult or Supplies grames again to wanted to, if work. You heve you buy all the games again - because at lifty to avently guid a throw that is where the profit is Through the Niri endoctor of the PC doesn't help consides either - with 30 graphics and is attenting to make their presence left, there is a real chance in the PC will become the

actually gatting easier to use, and with the incredible power of a Pentium, there are few games which would be impossible to port given enough time end money.

There's a chance that Wondows will grow so by an clever that I will I'p over fraeth, but in general Windows98 will be easier to use Windows98 will be easier to use a characteristic properties enough to convert a fine properties and the work least, the work least and the but the ordy least, the work least and the properties and the work least and the properties and the work least and the work least and the work least and before you haven't and the work least and the work least and before you haven't and the work least and before you haven't and the work least and the work least and before you haven't and the work least and the work least

The new Amigs hardware is a small box, connected to the family TV or a dedicated monitor. The keyboard is infrared. In fect, updata the

"This could be the last Christmas for the little grey and black boxes sitting under the TV, and next year they could be in the cupboard with the Atari VCS"

CDTV bit, and that a all that rails dong to the consentes. There are some top differences made to case though, divers a fact processing when for cepturing, compressing and playing whose for cepturing, compressing and playing whose made is a most users and playing whose the most playing the constitution. There is a final fail, the first compact operating siyelier in Microsoft. The first compact operating siyelier in microsoft constitution in the most playing the most

WindowsCE in quick, 32 bit, fully multitasking and can turn on and of instantly it also speaks fluent Internet, is available for a range of processors and comes with a standard Web browser.
Now and here is the clever part, build in one of those new format moderns which the power generaling companies are proming will give us 30 times the speed of our existing moderns mark year. The result is a fast assy to use video phone and follower terminal which would interest terminal which would

edvanced country in the world Mail shopping, diel up poin (most important to leunch any new media) software, games, DVD CD-ROM. It's a dream come true for home computer users. And thei's my recipe for the future of the Amica.

John Kennsely in a Tochsical Consultant for CU Arriga.

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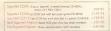
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